

Appendix A

-306-

[illegible]

Appendix A

-307-

CGGGCATCAGGATAAAGGCGTTGCTACCGCGGAGCTCCAAACGGTCTTTCTTAAGGTTTG
 CGCGCGCGTGTGCGGAGATGTCGCCCGGTATGCTTCAACGGGTAAAGCGCATTCGAT
 CGGTATCTTCAACCGGCTTGAGCGTCCGCGCTCATCCGACCAACGGCTGCGCAGAGAA
 TGCGGTCTGAGACCAATCGAACGTCGCTGACTGACGCGTGCACGGTGGCGGCGGGGTT
 TGACGGCGGCAACGCGTTGCCCGCGCATATAGCGGGAGCGGGAACCGAATACCTGCCAGA
 CGGGATAGTTTCCAAGGCGATGACGCGCAACACCGCCCAAGGCTCGAAGCGCACCTGAC
 TCAAACTCGCGTGGCTCGCGATGGTTTGTGGGCAGCAGTTCTCGGGGCAAGCGCGGGGT
 AATAGCGTATCATCTGCAAGACTTCCGATTTCCGACGCGGATTCGTGCAAGACGGCTC
 CGATCTCTCTACAGCGATCTGTCGCAAGACGCTTCGTCGAGCTGGGAGATTCGTCGTC
 ATTTTTGCGACGCGCGGCGAGGCTTCGTTTACCGCCATGTGCGCAAGGCCCTCCGCGCA
 TTTTCAAACTCGCGACGCGCGGCTTCAAACTCGCATTAATCTTGGCGGGGCGCGCGTAA
 CGGTTTGGCGCGTAATACTATGACACTGTGAACATCGAATCAACTCGACGTCAGTTGCGGG
 AATATCGTTTTCAGTCCGCAACATAATCTCCACGATACCGCGCGCGAGCATCATACCC
 ATAATCGGTTTAAATCGTCAAGCGGCTGGCGCGCAGCAGGCGGCTGACCTTCCCGGCA
 AGGATTAATAGGATTAACATATCGACTGACCAACAAACCGGCGGGGAGATTAATCAACGG
 ATCTGCGCGTATGTTTACGCGCGCAAGCGCTAATATCACTGTCGACAACTACGCGCGGG
 CGGATCGTGAATGTCGCGGATGGGCAAGCGCATCGCTCCGAGTTGCGCGGCGGG
 CGCGCTCGCGCGCTTCCGCGTGGCGCGGAGATTCTGCTTGGCGGGATTTGCTGTTGCGG
 TTCATCATGCAAAATGGCGATCAGCAGCACCAAAATCCGCGCGCGACTGAAACGCAACCG
 ACGCTGATGCCAAAACCTTCAGCAGCGTACCGCGGATCAGCGCAAAATACCGCAATCAAG
 GCAACACCGGCAACGGCGGGCGTCCGCGGCGACTTCTCGGCTCTCTGCTGCTGCGCG
 TTGGCTCGAGCTCAAGGTAAAGGCAACCGGCTTAACGGATTAATCAGCACCAAAAAGCGC
 ACAATCAGCTTGCAGTTTTCATGCGCCATCCCATATTTCCCGCTCTCTCAAAACCGGT
 CGGCAAGGATCGGAGCGGCAAAATTCGCGGCGGATTAATTCGCTGATTAATAA
 TTCAGCAATACGCCCATCATACCGCAAGCAGCGTATTTACCATCAGCAAGGATGCG
 TTTTCACTGGCACTGACACTTGGCGAGCTAGACAAATGCGCGGACTCTCGGACTGCACT
 TGACTGGGAGAGAAAAGAAAATCGCTTCAAGAAATTAACAGCATTTTCACTATGCTG
 AACAGATGCAAACTTAATACACAGCGGATCAGACGATGCGCGACCGCGACAGGCGCG
 CCTCGCGCTCGCGGAGACGAGTAAACGAAACGACGCGCGCGCGCGGATTAATCAGCGCGG
 TGTGTCGCGAGTACGCAACCGCTGCTGACATGCTACGCGAGTTATCAGAGAAATTAATCG
 ATATGCTTCAGTACGCTACCGCGCGGCGGATTCGCTGAGTAAATGAGTAAAGTATTA
 GACCAATACAGATTGCAACAGGACGCGTCTCTGTCAGTCCAAACAGATTTCGCGCT
 CGAATGGCAAGCGCATACTTGGCGCATCGCGAAAAAATCCGCGCTCAACGGGCTA
 TATCAGCTCGACCAAGATAAAACCTTTCAGAGAACCGGTCGCGCGGACGACGATTCGCG
 CAGGGGCAACGGCTTCGCGCTTACGCGCTACCGCTCGCTACAGGATATTTTCTGCGCA
 AACCGGCTGGCGAGCGGCTCGGCTTCCAAATCTCGCACAACCTCATCTCCCGCTACAC
 CGCCACCGCTCTCCAAAACCTGCTGACGAGGATGTTGTAAGCTGCGCGCGCAACATAT
 GGTATGTTGCTTCTGGTTCGCAACGATTAATCTATCTTCGCGTCAAGCAACAAACCC
 ATGGATTTGAGACGCGCGCGGCTTGGTTCGCGCGGCTGCGCGCGCTGCTGCTGGCGG
 CGCGCTTCGCGCTTCGCGCGTGGTTCGCAACCGCGGCGCTCTATTCGCGCAACCGGATC
 GCACTCGCGCATACCGGCGATCAAAACCCACATACGCGCGGCTTTCGCGCTTCGCTATGTT
 CGGCTACGCGCTCAGCTTCGATCAAAACCGCGCGGATGCGCAAACTCGCAAGACTCGCG
 GATCTGTTTAAACCGGATGCGAGGTTTCGACCCCAAGACTCCACAGCTCGAGCGCGCA
 AAAAGAGACTACACCGCGATTTGAACCAACCGCTCAAGGTTTGAATTCGCGCTGCG
 CAAGAAATATTTGGCGGAGGCGACAGCGCGATGTTCTGACCGGATTCGCAAAACACAT
 TGATTTCTCAAGGCCACAGGCGGATATGATGATTTCTGCGCGCAACAGCT
 GTCCATCCCGCGCTACTACGCTTCCGCTCCGAGAGGCGAGCAACCTTTCAGCTTA
 CGACGGCGTACGTTACGCAACCGTCCGCGCCCAATTCGCGGATTTGGAAGAAATGTACGG
 CAAAAACCGCGCGGAGGTTTGGCGAGGAGCTCAACGCGGCTATGATCGGCACTTA
 TGTACTGTGCGACGGCTACTACGATGCTACTACTCAAGGCCAAJAACTCGCGCGCTCT
 CGTTGCGGATGATTTTCAAGCGCATTTGCAAGCTGCGGACTCTCTGCGCGCGACCGG
 ACCCATCGACGCGCAAAATCGGAGCGGATGCTTCGCGGTTGAAGAACTATGAGGCA
 TATTCACATATGATGCGCAACCTCGCGGAGCTGCGGATGACGCTTCGCGCGGCTCT
 CAGGCGCGCGGCTACTGCTGCGCTGCGCTGCGGACTGCGCAACTACTTCGCGAGCGCA
 AATCTCGGTGCGGCGCATCAAACTCAACTCAACGCGGATGGCAAGGCAACGACCGCA
 ATGAGGAGAGAACCGCACTTTACCTTCCCGGATTTTCGCAACGTTTACAGCTATGCGGCT
 TTATATCGGCTCGCAATTTAAATACAGATTCGGAATAATTTTCGGAATAAAAGAAAT
 TACGCGTTGAGCAGTTTGTCAAGCATCCCTATCCGTACGGGGGCTGCTCTCAACTGCG
 CGGCAAAATGCGTATTCGCTGCTGCGGATTTGTTGACAGGCGTTTAACTGCAAGACG
 CTTTACATGCGCTTCAAGCGGATTTTCATGCGGAAAGGCTGCGGCGGACGATGCGGCA
 CTGCGCAAGGATGAGAGCTACCGGCTTCCATGCGGAACTACGAGGCTTCGAGAGGCTG
 CTGACAGGCTCGTACAGGGGCGCGGGGTGAGAGAGCCAAAGACACGCTCGCGCGCAT
 AOCAAACACTCCAGCGGTTGCGTCCCAACAACTGATGAATACCGCGCTGCATATTTCT
 CGCGCGCTACTCGGCTTGGACGGCGCAATGGGCTATGCAACAAATACAGGCTCAACTG
 CGCTGGAACCTTAAAGCGCGCTCAAAATGAATACGAGGATCTCGGAGGATTAAGCG
 GCAAGTTTGAAGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGCGCATCGAAGCAAAAGCGCTTGCATGACCGCAAGCTTTATGAAGTCTGGACAAAT
 ATGTTGCGAGATGAAGACAGCTGTAAGAACGAGACACGCGGCAATTCAGAGGCGCATC
 CAACCGGAAJAAACGCGCGCGCGGACGCTGACGCGGAGACTATGAATGATATTTTA
 GAGAAAGAGGCTCTTATGACTGGGAAACCGTATTCGCTTGAAGATCCAGCTCCAATTG
 AACAACCAATCCAAAATCTTCAGCGCGCATCGACGCTATCGCGCGAGACCCACAGCG
 CACCGCAAGCTATGGAATGCGGCTCGCGGGGCTTTTTCGTGATGAACGCTGAAGTC
 GTTGAJAAAGCATCAAAATGGGTTGGCTTTGATGCGGAJAAATCAATCGAAJAAAGCT

Appendix A

-308-

[illegible]

Appendix A

-309-

GCTGTTTCAGACGCGATTTTATPCCGGGCTTTTCAGGAGAAAAGGTCGATGCTTTGACGA
 AAGACCATACCCAGCGCGTATGCCGACGGTATGACGCCAATGCCAACGCCACACAGACC
 GATATGCCGCGCGCGGAAACTTTTCCGCCCAACAGGTAGCCTCGGATATGGCGCTTTTC
 TCATCGGGGTTCCCGCTCTGTCCGGCGGTTTGTATGCTCTTTTCGTGGTGTTCCTGTGT
 ACGGATTTGACCGCGAGGTTGCACAAACCCCATATACGACGGCAACGCCATGATGTAC
 ATGTTTACGCTGTATGCTGTGTCGCCCGGATGCCGCTGTGCATTTGGCTTTGGGTATG
 TAATTCAGCCAGTACCGGGCGGATGACGCGCGGCGTTGACACAGCCAGCAGAGTGGCTCCG
 TGAATCGCGCGCGACAGTTCACACAGGCTTTTCAGTGAAGGGGGAATGGCGGCA
 AATCCCGCGCGCTATCGTGAATAATCACCGCAAAAGGCCGATGATGAACAAGGCTTTGCTG
 CCCCCCTCGCCCATGGAGGGACCGCGAAATACAGCAGCGAACCGAGTACGAGAAGATG
 GTGTAGGTTGTTTTTGGCTCGGATTTTTCGGAAACGCTGCACACACAAAAGCGTCCGCC
 ATGTTAAACAGGCTCAGGAGGCTGACGAGCCTGCCGCGCACCTTCGCCGACTGCTGCC
 TCCCTGCCATTCGAGGTTTCGGAAAAGGTTCTCGATCATCAGGATGCTTGACCCAT
 ACCCGGATGCGCGGATTTACGTTTCAGGACACATACCGACACACGAGCAAAACGCTCGCG
 GTTTTCATGCGCTTGGGACAGTGTACATGATTTCTCTGTACACCTTTTTCGCTTTTC
 GCGCGCGCTATGCTTTTCAGGTTTCAGCGCTCGCGAGGTACCGGATGTTAAACGCGCG
 AACATCATCATGCGAGGTAAACGACGACCAATACGGCGAGGTTTCGGGACACCCGACAC
 GAAGCAGCGTTTGAAGAGGTGTTTCATGATGATACGGAAGCGCGAGGCGAGCTTGGG
 CCCCCACGAAACCCATATCCGCAACCGGTCGCCATACCCGCTTTCGGGAAACCAT
 TTCACTAGTGTGGAACCGCGCGGATGTATGCCCAAAACCAACCTTCGCCGCGGATGACG
 CCGTTTGGCCAAATAGACACGGAAGAGTTTGTGCTACCCACCGCGAATGCGGATGACGAC
 AACCCACCGCTGAGACGACGCGCGCGGCAATATGCTTTCCGCGCGCTTACCCGCTTTC
 ATCCACCTACCGCGACGCTGACGATGACGATGACGATGACGATGACGATGACGATGACG
 CAACCTACGCGCTGACGCTTCCAACTTCGCGCGCGGATTCGGTATACCGCATAGCTTTG
 GTCACGCGCGGTTGAATACGGAATAGGCGTAATTCGCCGATGGCACTGTACCGCG
 AATGCTCCGGGCGCTACGAGCCAAACGTTGAAACCCCGCTTCGCAATGCTTGCTCACGG
 TCTAAAACCTCATATACATCTCTTCTGTCACTGAAATAAAATTTTCATTTGCCCA
 TCCAACTTATTTGAAATTTAAAAAATATTCGCTCGGTTTTCGCGCGCGGAAATC
 CCGCGCTGTAACATTTTCGGGTGACGGAAGGTTTCTGTTTTTCGCACAATTCCTGCT
 CGCTTTTCGCTTTCGCGCGCTTTTCGCGGGAATGAAGGATGAAGGATGAAGGATGAAG
 TCAAGGAGTTCGATTCCTGCTTTTCGGGGAATGACGCGCGCGGGAAGGTTTTCGGA
 TTGGGTTTAAATGCAATGCAACAAATCTGCTGCCGCTTGTCTTTTGTCTACGCGCACTG
 GCTTTCCGCTCGCGGAGATATGCTGACGCTTCTCGCTCTCTCTCAAAACATCGCGGTT
 GCGGATCACTTGTCCGCTGTCTTTTTCAGGACGGAAGGCCCGCTTCAGATGTGCTGCT
 CGCGGAACGCTTCGACCAATCCGGCTTGGGCACTGACGCTTTGCGCGCGGTGGTAAG
 CAGTTTGGTGAAGGCTGCGGACAGGCGCTTGAAGGCGGTGATGTTTTTTTGAACAC
 CCGCAAGTCTCAATGCTCGCGCGCGCGGACGACGACGACGACGACGACGACGACGACG
 GTGCGAGCGGTTTATATGCTTTTGGGATTTTTCGCGGCTTTCGCGGCTTTCGCGGCT
 GCGCTGCTTCGCTGAGTTTTCGGCGGATGACCCATTTGCCCGCGCACGCGCTGAGTTT
 TTGCTGCGATCGAAATAGGCTTTTTCGCAAAACGCTTTTCAGACGCGCATTCGCGCTTGGC
 GACGCGCTCGACCGATTTCTCGCGGTTCGGGCTGACCATTCGCCGCGACCGGCTGCGCT
 GGGCGCGCGCTATCGCGGACGAAATCGCGGAGCGTGAATCGTTTTCGCGCTGACGCG
 GCTGACGACGCGACGCTGCGAGGATGCTGATGCGCGGACGACCGGTTTCTCGTTAAACG
 CCGCAAGTCTCAATGCTCGCGCGCGCGGACGACGACGACGACGACGACGACGACGACG
 TTGCGAGCGGTTTATATGCTTTTGGGATTTTTCGCGGCTTTCGCGGCTTTCGCGGCT
 TGTGCGGATTAACGATAACGGGATTTTCGGTCCCGCGCTTCAAGGTATGAACACATC
 GCGCAACCGCGCGCGCGGACGCTGTTGATGCTGACGACGACGACGACGACGACGACG
 AGGTTTCTGCGTTCGCGCGCAACGGGCTTTCGCTGCAACTCGGCTTCAACCGCTC
 ATAGGCTTCGTAAGCTGCCCAAACTTTGAGCGCTACTTCGTTTACGATATCTGAA
 TCGCGCGCGCTTCAATAACTGATGTTTTCCTGATACCTCGATATGCTGCGCTTCTTT
 CAAGGCTTTCGCAACGCGCGCGCTTCAACGACCTTCAACATCGCGGACGACCTGTCGCG
 GCTTTTCGCGGACGATATGCTGCGCGCGCGCGGACGCGGCTGAGTTGATGCTG
 GCGCGCATTCGCAACCGCGCAAGCTCTTTCGCAAAAGCTTTTCGCAAAAGCTGCTCA
 CTCGCAACGGGACACGCTCGAATGAAAAAATCAGACATCGAATCAATCAATAGTA
 AAAAATATGATATGTTTGAAGCTTACGCGGCGACGCGGCGGCTTAATGTGCAACAAT
 ATTTAAACACGCGGCACTTTCGCGCGCGCTTTTCGCGTATGACTTTTAAAGCGGGAA
 TGSGAAAAATATTCATCAACCTGCTGCAATCTATTCAAAATTCGACGCGCGGAGGCTAT
 GATCGGATATTTTCGACGAGGGAATAATGATATGACGACGAGTATTCACATATTCG
 CCGATGCTGACGACGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CCGCGCGCTGATTCGCGCGCTGCTGCTCATGACGCGCATTTGACGATCAACGCT
 TTCCTCCCAACCGAGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 ACAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TACTAATATGCGCGACGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCTTACGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGACGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 ACTGGAATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCGGACTCTGTAAGATCTATACGCGCTTACCGCGGCTATGACACGAAATCAACCC
 GATTCGCCATGCGGCTTCCCGCGGATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 AACGAAAAACGCTATTTTCAGACGCGATGGAATAATGCGCTTCTATTCCTTGAATGCG
 GTAGCGCGGCAACAAATATGCTTTTCAAAATGATGCTGCTGCTGCTGCTGCTGCTGCTG
 TTTCTTTCGCGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 AATGCTGCTGCTGCTTTCGAGCGCTGCGATGCGCGGCTGCTGCTGCTGCTGCTGCTGCTG

Appendix A

-310-

TCATCAAGCGGATGGGCATCGCCGACCGGTCCGACACCTGATTAAATCATCGGAACA
 GCATCCCTTCCCTCTTTATCATATGATGATCAGCAGTGTGTTCTGATATAGGAACAGCT
 CGGCAATTTCCGCGGAAGGTCTCGCATGAACTTGGCGCACCTTTTGGCGCAGCGGCA
 CCAATTTCTCAAATTTGTCACGGTGGACATTTGGTAGGTTGACAGGATATGATCGACGG
 TTGCACCAAAAGGCGCGGTCTCCCAACGGGAAAAATCAGTCATCGCAAGTGTCTTTTAC
 AGGGTTCTCGGTTTGGTTTGTGAACATTCATACCTTAGAATCAATTCACACGGAGCATAC
 ACCGCCCGCGGCTCTGTACAGCCTCAACGATTTCTTACATTTTGATATAAAAGTA
 ATTTTCAGAAATAAATCTGCTCGAACCGGTTTTTAGATTTGCAAGGCGATTGGGGG
 GGTACAGAAAACTATATCGCCGCGGCGCATGAAATTTTATGCGCAGGCTATCC
 TGCACCTATCTGCTCCATCCCAACCGAAAAGGAAAAATATAGCAGCAGGATGATTTGT
 ACACACAGCGATCGCGCTTTGAAAAGACGTTTAAATGCAGATATCCCGTCTCGCT
 GGACTTTGGGCTCCGTGTTGCGGCCCTGCAAAATGATGGCCCGATTGTGGACGACAT
 TGGCGCGCAATTTGAAGCGGCTTGAAAGTGGTCAAAATCAACATGCACGACACGAAAGC
 CACCCCGTCCGGTTTGGCGGTGCGCGGCATTCGCAACCTGATGTTTCAAAAACGCGCA
 AGTGCTGCGCACCAAGATCGGCGSCTTTGGAAAAAGGTACGTCGCCCGCTTTGTGGAAGC
 CTCATTCGCGTGAATGCAAAATGAAAGCGCGCGAGAGTTCGCGCGCTTTTTCG
 CACCTTAAGATTTGTGCGGATTTCCAGCACCATATGATTTTTTTGTGCGGAATCT
 TCGGGAACGAGTTTGGAAATGCTTTGACGCGGATTTGTTCGATACCAAGTCGTCT
 AAGACGAAGCTCGCGCAGTTTGTGAAAGTACAAATGCCCTGAGAGCGAGCAGCTTC
 AC CGCGCGCTCAATCAGCTTTTGTGTCGCGCTGGATGTCGAGGATGTCGACATTTTC
 TTGCTGTGGAAGAACTGGCGGGTCCATCACAATGAGGTGCAACCGCTGCCTTCCCCA
 TATGCGCTGTGAAGATTTGGAACAGCTCGGCGCGGACGATTTTGTGTCGTTCCGATCG
 ATGCGGTTCAATCAAAATCGGTTTGCACCAATCAGATATCTGTGTGCAAAATCGACG
 GTTTCGCTGATATGATGCTCGGTGCGAGCTAGACGATGAGCTGCGCTGCGCTGCGA
 AACAGGTTTAAAAAGCTTTGCCCGCGCGGTTTGGCGGACTTTTTCGCGGTGTTCGA
 TGATCCAAAAAGCCCGTATCCAAATCTATCAAGGTGACCCAAATCTGCGCGCG
 TTTTCGGTGTGACGAAGATCTGCGCCGCGCTTGC CGGTTTTCTGCTACTGTCAAACCT
 TTTTGGCGTTGCGCGGCTTTGAGCGGATTTGTTGCGGCGCAAAACCGGTACGAAAGCG
 ACGGCTTCCAGCATCTCGGCAAGCGACGCTTCTGATTTCTGGGCGCATCAGCCACCG
 GTATGCTATTCTCGAAGTGGATTCGATCGGCTTAACATTCGCGCGCAAGGGGATTTG
 GCGATGTCGCGGCTGATGCTGCGAGCGCTTCATGCGGCTTTGATGCTGCTATCTA
 AGGTTGTAAGCTTTTTCGCCAAGCGGTTGGCAACGGTGTATGCTGCTCAATGGTTC
 AGCGGGAATAAGGTGGAAGCGCAATTTACTGTAATACGCGCGATGCTTGACCGT
 TTCGGGCAACCCCTATACCATCGCTGCTTATCTTGTGATACGAAGCATCGCTTCGAA
 CCTAAACCGCCCTTACGGGCGGTTTCTCTGTTGCTTTGATTTTCAAGCATATCTGT
 CGAGTTGCGCTGATGTAAACGACAGCAAGCGCTTGCAGCAACCTGTACTTTCACA
 TTTCCCGTATGCTGATCCCTTCCCTGTTTAGGCGGCTGTAACCTTTCGGAACGGCGGCT
 GTTCTCTTCAGAGGATGACATGCTATTAAATTTGCCGATTGACCTGTATGAATAAACA
 TTTTGCCTGCTGACGACCGGCTTACGAAGCTTCAGCGCTTTCAGCGCAAGCA
 TTGCTTTGCTTTGGAAGCGCGGACATCATGCTTCGCGCAACCGCGCTCCGCAAAA
 CGCGCGGCTTTCTGTACCGACTTTGCAAAAACTGACCAACGACGAGCAAAACCGGCA
 AAGCGCCCGGCTGCTTTGCTGTTGACCCGACCGCGGACCTGGCGGCTCAAGTCGAGAAAA
 ACGCGCTGCGGATGCCAAAAATATGCGTTGGTTTCCGACCGTCAGCATCTGCGCGGCG
 CGTCTTCGCGTACCAACCGCTGCGCTGAGCAACCGGCTGATGATGTCGCCACGCG
 CGGCGGCTGTATGAGCCGTGATCAAGCGGCAAGTGTATTGACCTTTGGAAGTGC
 TGRTTTTGACGACCGCGACCGTATGTTGATATGGGTTATTCGACGATCGAAGCA
 TCGTGGAGCAACCGCGGACGCGACGTCAGACTTTGTGTTCTCCGCGACTTGGGACGGG
 CGGTGCGCAACTGCGCGCAAACTGACCAAAACCTGAATCATGAGTCGAAGCGG
 TGGACGATCAAGGCAAAATCGAAGCAACCTGCTGTACTGCGACGATATGCGGCACAAAA
 ACGCGCTGCTGATCATATCTTGGCGGATGCCAATATCATGCAAAAGCGTATTTCAGCT
 CCAACAAAGCCATGACGAGGATCTTTCGCGGATGACTGTACGAAAGAGTTTTCGCGCRA
 ACTGCTTCGACGGCATATGCTGCGAGGCTTGGCGACCGCAGCGCTGATGATTTGCGTA
 AAGCGCGCTGATCAAGAGCGGCTTACGAAGCGGCTTTCGCGTACGCA
 CATGACGAGCTTATCAATCAGCACTGCGCAACGCGGCAAGCATGCTCCACGCGCA
 TCGCGCGCACCGCGCGCGAGCGCGACGGGTATTGCGATTACGTTTTCGCAAGTGAAGC
 AATACGTTCAAGTCCACAAAAATCGAAAAATACATTAACGAAAACCTGCCGACCTGACCA
 TCGAAGGCAATGGAACCGCACCGCGCAACGCAAAATCGCAGCGGCGCAAGCGCAAGG
 CGGCTGGGCGGATCGTAATCTCGGCGGTTTGGCGGCGGATCAATAACCGGACGAAGAAG
 GCTTCGGCGCAAAACCGCGCGGCGAAGGTTTCGAAAGAAAGGCTTTAGAGAGAGCGGTT
 TCAAAAAACCGCGGAGGCTTCAAGGCAAAACGCAAGCGGCGGCTTTCTTGGAGCA
 AAGCGGAACCGCTTACAGAGCGCTTAGCGCCCAACCTCGCGCATAAATATCTGCGGCT
 TGAACCGATTTCGAGTTTCAGACGCAATTTTGCAATGTTTCAGCAGCGCGCGGCTTTG
 ATACCGAAAGGATTAGGCTGTATAAAACCCCTTTTCGCTTTGGCAAGATTGAAATTT
 TCCGTAAATTCAAATATCTAGATTCTTCTGCGAGGGAATGACAGGAAGGTTTTCAGA
 TCGAGGTTGGCATTTCTGCCACCCATCCGCGCTTGCACGCTGGGCAAGATGCTCT
 GCGCTACGCGTTGACTGTTTCGATATGATCGGCTTGAAAACCCAGCGCGGATGACAT
 GCGCCCTGCAACGCGACGTAATCGAATTTGCTCCGCAATCGCAACGCTTGGAAJCA
 AATTCGCTGTGATCAAGAGCGGATACATATGATTTGCGCAACGCTTGAATTCGAATG
 TCGAAGCTCTTTCAGAGCGCATTTGCGCGCGCGGTTTACCGGCTCTTCGCGAAGCGG
 GCATAGCGGGCGCGCGTAATTTGCGGGCGGGCGGCTTGTGCGCGGTATACGCTGCGGCT
 GCGCGCGCTGTGTTTTGACGAGGCTGCGGCTGTTCAATCCCTGCTGCTGCGCGAT
 TGGCGGCTCGGACATGATGTAGGCTGCAACCGCGCGCGCGGCGGACGCGGATGTTGTT
 TGCTGCGCGGTGAAATTTTGTTCGACGCGGCTTGCAGTAAGCGGCTTGGCGCGCGG
 CACGAGGCTTTGACGACGCGAGCTTCTGTCGATTTGCTGAATATCTGCTGCGCT
 CTTTTCGCGTAAAGGGTTGCGGTTGTGTTGCGGCTTGGCTGCTGCGAGGATGGT

Appendix A

-311-

CTTTGACTGCCTTCGGGAGTCAGTTGGTAAACCGGATCGCTGCGCTGCTGCGAGCTGCT
 GTTGACAGGGCTTCAATCTGTTTCGTGCTGCTGTTGCGAGCCGCGCTGGCGTCTGCTTGGC
 AGCGCGGAGTGCAGATTTGCGGATAAGCGCGGAGCGGATGATTTTTCATGTGTGTC
 TGTTTGGGTGGAAAAATCGTTTATTTGATATCGCCCTCGGGAAATTTGGCAAGCATCTGC
 CGGCAAACTCGTAGTTTACAGGGCGAGGCTGTGCAATTTCGGACAAATGCGAGGCTGT
 TGGGAGCTGGGTGCTTGTGTTGACATCTGCTGCTGCTGTTCTACGGTTCAGGACGAGCGG
 GGTTTTGTGTTTCTGCAATCTCAATCTGCGCTGTGCGGGTGTGAAATGAGAGCGGCTGT
 TTTTCGGCAAAAGCGCGGCGCGGCTGTGCGGGTTTTCAAAATCTGAAGCAGCGATCGT
 CCAGATGGAAGCTGCGACGCCCAATACGAGAATCCGTGCGGCCAAAAAATCGCGGGCAT
 CGGTAACTCGCGGGGCTGCTGCGGCTGAAGTCTGCGCTGTCGGCGGCTATCAGGGCGG
 CAACGGTGGCGAATTTGCGGAATCATGATTCGCTGATAAGTGTGTCTGCCGCCCTGCAAT
 CGAGAAGCATGGGCGAAAAATCTGTGCATCATCGAACAATATGCTACAGATGTGCAAGG
 TTTGTTTGTGCGGGGGTTTGGGGCATGATTCAGTGCTATTTCTCTGATTTCTGCGGT
 GTGTTGCCGAATGCGGACCTGTGTGAGGATACAAAAAGTGGCGGCTGTTTTCGAGG
 GCGTGTGTTTGGCATGCGGATGATTCAAGCAAGCGGAAAAAGTACGCGACGCTGTGT
 GGTACCAATAGCAATAAGCGGTTGTAAATTTTTGCTTGCATGATGAATGCCGCTGTA
 AGATAAAAAATTTGGGAGATTCTAAATCAAAACGCTGCCGCCCTCAAGCATTTTATG
 AAAATTTTTTGTATTTTTCATCTATCCGATTGAAATATTTTCGGTTTATTTTACCGCTGC
 CGGATATTGTGCGCAATTTCCCTTTATCTGCTTTGAAAAACGGTGATAATCCGAGCA
 AACCGCAATCAGAGCAATATGCAAAATCTATGACCCCAATTTCCGCTTTGCGCGGA
 TGATTTCCGACAGCGCTTCAGCGACCGCGTTTGGGATACGAGCGGCTGTGAATATTG
 ATTTTTCAGGGGTATCGCCGTCAATCGCTGGGACACTGCGACCTGCCCTTGTGATG
 CTTTAAACCGCGAGATGCAACAGCTGTGGCAGATTTTCCAATATCTATACGACGCGCTCAG
 CGCAGGAATTTGGCGCAAAATTTGTTGCAACAGTTTTCGCGACAGGTTTTCGCTGCA
 ACTCGGGCTCGGAAGCGAATGAGCGCGCTGTGAAGCTGGCGAGGAAATACGCCCGGACG
 GTTTCGGCGGAGGAAAAAGCGAAATCTGTCGCTGTATCAACAGTTTTCAGGAGCGACGCG
 TGTTTACGCTGTGCGTGGCGGCTGCGCGAAATACAGCAAGGATTTAGCACCTTGGCGG
 AAGCATATCAGCAGCTTCGTTCAAGCATATTCGCGGCTGGAGAGCTGCTGCGGGCAAC
 AGACTTCGCGGGGCTGCGGCTGCGATACGCGGAGCGGCTGCTGCTGCGCGGCTGCT
 CGGAATATTTCGAACCGCGCGCGCTGTGTCGACCGGCACAATGCGTTTGTGATTTTGG
 ACGAAGTTCAACCGGGATGGGCGATACGGCGAGGCTGTTTGCATATGAACATTACGGCA
 TTGTTCCCGATATTTGAGTTTGGCAAAAGCTTTGGGCTGCGGCTTTCCGATCGGCGGGA
 TGCTGGGCGAGAAAGATTGCGCGCGCTTCAACCGGGGACGCGGCTGCGACTTTGCG
 GCGAACCCGATCGGCTGTGCGGCTGGGAGCGCGCGCTGACATCATCAATACGCGCG
 AACTTTAAACCATGTTCGTTGAACAGGCGCAAAATTCAGCGCGCATTCGTGGATTTT
 GCGAGAAAGCGGCGGCGGCGCAAGTTTCGCGGAGGCTGCTGCTGCGGCTGCTGCTGCT
 TGGACGAAGCTATTCGCGACGCGCATCGGAATACCGCGCGCGCTTGAACACGCGG
 TGATGATTTTGGTTTGGGCTGCGGAGCTATTGCGTTTTCGCGCTTTCGCTACTGTTGAACG
 ATGAGGATATGCGGGAAGTTTTCGAGCTTTGGAACAGCGCTGACGGAATTTGCGCGGA
 CATCAGACAATCCGTAACCTCAATGCGCTTGAAGCGGGAAGGCTTCAGACGGCATC
 AGAAAACAAAACCGCTTCAGAAACGTGGTCAACGTTCCGGAAGCGGTTTGTTCGTCAT
 CAGGACTCGAAGCAATTCGCGTTTCCCTGCCCTTTCGATGATGCTGCTTACCGACACCC
 ACTTTTTCAGCGCTTCAATCAGCGAGCGGTCATGATTCGACGAGGCGAGGCTTGTG
 AGGATGGACCTGAGCGCGCGCGCGCTTTTGGCTTCATTCGCTGACGCGGATGGA
 CGCAATCGGCTCTTCAACCTCAAGTTCGACATTTTCGATACCGGAACACGCTGATAC
 TGCTTGACCAAGCATTTTTCGGCTGCTGCAAAATTAATCAGCGGCTTCTGTCGAAT
 TCTTCTAAAGTTGCAATCAGGCGAAGCTGCGATTAATTCGGAATCAGACCGAATTTA
 ATCAAGTCTTCGCGTTGCGACATGCCGAACAGCTTGGATATGTCGGCATTTTCGCTCTTG
 CTGTGAACCGGACGACGGAACCGGATACCGGCTTTTCAGTACGCTGGCGGATGACTTTT
 TCGAAGCTGCAAAAGCGCGCGCGGAGATTAACAGGATTTGTTGGTATGACGATGATA
 AATTCCTGATTTCGAGCTTCGCGCGGCTTCGAGGCGGAAGCTGGCATCTGTGCTGCT
 ATCAAGTTTCAACCAAGCTTTGTGCACACTTCGCGGATACGTCGCGGGAATACGACGGG
 TTGTCGCTTTGCGTGAATTTTATCGATTTCGTGATATGACAAATCGCGCGCTGGGCT
 TTTTCGACATGAAATCAGATTTGCGCAAAAGCTTGGTAATGATTTGCTGACGCTTCG
 CGGACATAACCTGCTTCAGTCAAGTTGTGGCATTCGCCCATCAGCAACGCGACATCCAAT
 TTGCGCGCGAAAGATTGCGCGGAGGAGGTTTACCGGATCGGCTGGGCGGATAAAGAGG
 ATGTGGATTTCGACATTCGACATTAGCTTCGCTTTAGGATGGCGGAGGCTTTGTGAA
 TGCTGTAAACGAGACCGGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TTGAGTTTGGGCGGATTTTCGCGGGGCTGGGCACTTCGCGGATCTTCGCGCTCCCT
 CGCGCACTTTCGGAAGCGCTGCCGCTATTTCGCTTCAATGCAATTTTCAATACAGTTT
 GAGACGCAATTCGTCAGAGATAAAGCGTTTTCGCCCTCAATTAATTTTGAACGAGAC
 TTGGAATTTTCGCAAAAGGAACAGTACGTTTTCGTTGGACATGCTTCTTTCACAAATG
 TATGCGTTACGAAAAACGGCAGCTGCCGTTTCGGGTTGCGAAGTATAATACTATATCCGT
 TCTTATCATGTTATACCTTAAATCTCGCGGATAGGCTATATAAGCGCTTTCGCAAC
 CGCGCGCGGCGCAAAATGCGGCTGCAAGCATGAGCATGAGCATGATTCGAGGATATTCAGGA
 AAAAAACCAAGCGGCTATGCGCGCGCAAGCTGCTCAAGAACCAATATTCGCGAGCTT
 GCCGAACTCGTCCGATCGGACTGAAAGACCGCGCGCGGCTTCATTACCGCTCAACGAA
 GTCGAAGTTTACCGCGATTACGCGCACGCCAGCGCTGTCTACACATTTTAAACCAAGAC
 GCGCGCGAAJATTACGGAAGATGCTGGAACACGCGCGGCGACCTTCGCGAGCGAATTG
 GCCAAACGCAATCAAGCTGTTCAAAACCGCGCACTGATTTCAATACGAGCGAATCTT
 GAA CGCGGTTTGAACCTGTCGCCCTTATCGACCAAGTAGGCGGGAARAAACGGTTGAA
 GACTGAGCATGCAATTCGCTGCGGCTGCAAGCATGAGCATGATTAACGAGCAACCGCAAA
 AACCGCGCTGCGGCTATGCGCGCGCAAGCTGCTTTCGAGCAAACTGCTTCAGCAACG
 CGCTGCAAAACCGCGCGCTTTCGTTCACTGCAAAAGCGCGGACATACGCGCTGCTGC
 ACCCTTTGGCAACCGGACTTTTGGCGCTGCTGCTGCTGCTGAGGACCAAGCTTCGCCAAT

Appendix A

-312-

ACGTCGCTGGATGCCGACAAAGCGCTACCGCCAGCGCTGAACTCGCGGAGCGCAGCAGCA
 CGGGTGATGCCGGAAGGCAAAATCATTTGCCACCGCCGCCGCGCATATTTCTCTAGCCGAAT
 TTCAGCGGCGCTGCCAAGCACTGACAGGCAACATCCGCCAAGTCGCCGCAATGTTTTCGG
 CGCTCAAGCAGGAAGGCCAAACCGCTGTACGAATACGCCCGCAGCAAGGCATCGTCATCGAAC
 GCAAGCGCGCGTACATTACCGCTTTACGCCATCGATTTGCGGANTTTGACGGGCCCAAG
 CGGTATCGAGCTAGCTTGCAGCAAGGCGACCTACATCCGACCCCTCAGCGAGACGATCG
 CGAACCACTGACGCTGACGCTGCCGCGCTCGCGGCTGACGAACCGCTGACGAACCGGCTG
 TTACGCTATCGGCAAGCAAGCGCTGCGGCTTGGCAATTTGACGAACGAAGCGG
 ACAGCTTGCTGCTACCCCTGCCAGCTATTGGTTTCACACITTCGCCAACCGCTTTTAAAGC
 ATTATGCGCGTCATATGCTCCACTGCGGCAACGCTCGCGCTTTGGAAGAGACCTGCCCT
 CCGACACCGCGCTAGCGCTTTACAGCGAAACGGCCGCTTTGTGCGTCTGGCGGAATATC
 AAAAAAGAAATAGCGCTGTAAAGCGCTTGGCGCTGATGACACCGCGCGCATCGCCGCGCT
 GAGCGCGGCTTAAAAATACAGCGCTGTGCTTGAATATGCTGTGATATTTCGGAAAAATCC
 CGACACGCTCGGACCGCGCCGCGCTTATCGGCACTTTTGGACGCCCTCGGACACGCA
 AAGCATCAATATTGATTTATAGCACTTATTTGAAGGCAATTTGCGCTGACGA
 GAATGGCACTATAAATACTGATGAGGATTTATACGATGAAGACAGACATCTCAACCG
 AATTAACCCAGCGCTACTACCACACGAAAAAGTATGGCGAAGCAAGAAAAACCATTT
 TAGCCAAAACATCTCTGTTGATTTCGTTGAAAAAACCGACCGACCATTTATCGTTTGT
 TATTGAGTAAATGATGAGTTAAAAAGCCATTTCTTTGTGGAAGTAAATGCTGCTGCTGT
 TTAATTTGACGATTTCCGTTTCTTTTCTTGGCAAAACAGCGGTCAATATTCTCTACGAA
 AATAGCCCAACCGCATGCTTTGACGACGCAACCGCTTTTGAAGAGCAAGTGATGATA
 TTTGTTGATTTTCGCTTTAAAGATTTCTGCTTTTAAATGGGCAACGACCGAGGAG
 GCGAAGAAATTTATTTTAAACGCAATACAGGCCAGCGCAGCGCAGCGCAGCGCAGCG
 CAGCCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCGCAGCG
 AAATTAACCGAAAAAGCAAGAAATCTTTTATTAACAAACCTTGCTTTTGATGAATTT
 GATCGGCTTTTTCAGCGAAAGCATTTCAAAATCTCTCGCTATACCGCAGCGCGAA
 CAGCGCGTTGGCGAAATCAACGACATTCAGACGGCAGCCCGCGGAAATCTCATTTATC
 AAGGCAATATATGATTTGCTGCTGATTCGCTTGCAGACGATTTTAAAGCAAGTGAG
 CTATTTATATTTGAATATATACAGCGCTTATACAGCGCTTTTAAATGACAGCAAG
 TTTAATCTTCACTTCGCTGCGCTTTTATGAAGAACGCTTGAAATGCGCAAGAGCTG
 CTTATGAAGACGCTTCGATTTTGTGTCAATTCGACGACAAAGCAAGCATTTTGA
 ATTTTATGGATGAATTTTCCGAATGAAATTTTCATCGCAATTTTATTTGGAAAAA
 AACACAGGTGCGTCGATGCCAAACAGATAGCGCATATTACAGAGTTTGTCTATGTTAC
 TCAAGAACTTTTAAACAGTTAAATTAATAAAACAGCTTTCTTATGATACAGAGAGA
 TACAATTTAAGTGATAGTTTGAACGAGAAAGGCAATATTAATGCAATTTAGAT
 AGCGGGGATTCGATATAGTACAGCTTGAAGATTTTGAATTCGATTCGATTCGATTCGAT
 TTTGATGATTCGATTCGATTCGATTCGATTCGATTCGATTCGATTCGATTCGATTCGAT
 AAAAAATAAATGATTCGCAATTAACAAACGCTTTTGGGATTTTGAAGAACTAAAGTCT
 AAAAAATCGGATGAGTGATGATTTAATAAACTATATGTTGTTGATTAACGAAAAACAG
 CCGATAGACGCTTCTGCTCCCTATAAGAACTTAATACAGGATATCTTAATACACATGCG
 ACAGATGAATGAAAAACGCTTTCGCGAGCAAGTTTACTACTCCAAACCTGAGAGC
 TTTATGAGATCTTATTCAAATGGCCATCTCGAATCGGATCGCTGCTAGATACCAT
 CTGCTAGTGGCACAACCGCGCGCTTCCCAAAAAATGAACCGCAATATATCGGATAT
 GACAAATGATTTATTAAGAAAGCTTCTGTTGAAGCTTGAAAGATGATTAAGTGAATGCG
 GACCAAGCGGATTTTCCAAACCGTGAATTCGCAAGCTGCGGCAATTTGTTATGCG
 GAATTCGCCCATTTAACGAAACCGCAAAACACAAATTTTGGCTTGGCAAGATTTCAGAC
 GGCATCAAAACGCTGTTGAAGGTTTATGCGAACGCTATTTCTGAATACACGTCAGC
 GTAATGAATTTAGTCAATCATTCAGAGCCTGAAITCAATCTTTGCCATTAGACGA
 CAACAAACAAATGCTGCTGAATTTGATTTTAAATCAAAATGATGTTTCAATATCGGA
 ATGATGAGCAACATTTGCAAGATTCGCTGAACGATGATGATGAAGCGCTTAGCGGATGCA
 TTTATCAATCAACAAATTAACGAGCAAAAGCAAGCAATTAACGATTAACGATTAACGAT
 TGAATGATTAAGATCAAGATTAACGAGGCTTAAAGCGCTTAAATAACAGGCTGAATTTGAAT
 GCCAGATTTAGCTCAAAAACTTAAATATGATTTTGAATGCAAAAAATTCGCCCT
 TGAAGACTTTTGTATTTTGAAGCGACTTCAAGCTAGACGATTTTCTGCTGATTTAAAAA
 TAAGCCAAACGCTTTGCTGCTCAATATGCAACAGGCTGCGCAAAACGATGATGATGCG
 GCGCTGATTTTGTATTTTGAAGAGGTTATCGGCATTTCTGTTTGTGATCA
 AANCAATATCGTGGATTAAGCGAAAAATTTTATGACGATCCGAGCGACGCAAAATTTT
 ATTTACCGCAAGCATTTTGCAGGCGGATGCGGATATCTTATTCGAAGGTGAACATAT
 TAGCCCACTTCAGCGGATGATGATTAATTTTACGAGCATCAAAAGCTGATTAACGA
 TATTGCAACCGCGCGGCAAAATCAACCACTTTGGCGGATTTGCAAAATTAACCTTGT
 GATCGTGGTGATGAAGCGCACCATTTAAACGGCAACCAAGGCAAAACAAAGCGCA
 ATTAGATTTAGAAAGGAAATGAACGACCGCACCAAGTTCGCGAATTTGAACGTAAAGC
 CTGGAGCATATGCTTTGGAATTTGTTACTCAATAAAATGGCAATCATAGCAAAATGT
 GCTGTTGGAAATTTACCGCGCAGCTGCGTGAATAATGCGCATGTACACAAATAATACGCTGA
 TAAATCATACAAATTTTGGCTTAAAGAAATTTTTCGCAAAAGGCTTATACCAAGCAAT
 CATTTTGTATGATTTTGGCTTAAAGAAAGGAGGAGTATACAGCTTTATGTTGG
 TTGATATGCACTGATTTGCTGGAATATGCGCATTCGCAATTTCAAGCTGTGATGTT
 GTTTAGAATGAAGCATGATGATTAACAAAGGCGATTTCTGGCATTTTAAATTTGGCG
 AGAAATTCGAGCGGCTGATTTTTCGTTTAACTCATTTTCAACAGCTTGAACGA
 TAGCGATAGCATAACGCCAACGAACGAGGCAACCGCACCTGAACAGCGCTTAAAT
 TATGACGCAAAAGGCTGTGATTTGCACTTTGCGCATTTGGGTAAACAAATATATCA
 TAACAGCAATGATGATTTTACCACTCGCAACCAACCAACCAACCAACCAACCAACCAACCA
 CAGCGAAACGAATTTTTCGATTAATTTGCAAGATTTTGAAGAGGCTGATTCGATGCTGCT
 TTTTACGCTGACAGATTAACGGAAGTTTGGCGCTTCTGATTTTGTGATTCGCGC
 TTTGTATGAAGGCGCAACCGCGCGCTTCAATTAATAATCAAGCAACCGCTCGCGC

Appendix A

-313-

TACTGTATCGGAAAGCAGTTGATTGGTCGGGGCGTGGCTATTTCCTATTCGGTTTGA
 AGGTAACAGCGCGAATAAACGCATAATTTGCACACGATATGCAACACCAATTTCGGTATTTT
 GGAAGAAATTTGTTTATACACGCGACGATGAGCAATCTGCTATATTACAGAAGCTGAAAAA
 CGAGTTACGAAAGACGGTATTTCGCTGAAAAAGACGATGATAGGTATTGGCAACATT
 TAACTCAAAATCGAATTTGCGCGAATACAGGATTTTGAAGATTTGTTAATTTGGGCAAA
 TAAAAAATCCCACATCCCACATGCCAGAGCCAAATATGTCAGACAGCGCTGAAGAGCAATCC
 GCAACGGTTTCATTCGACGTTTCGCGGCTTCGCGGCTTCGTCAGAGAACGCAATTTACAG
 CAGTAAATGATGAAATGCTTACGCTGCGCAATTCGCGACACAAAAAATTTTACTGTAATGAT
 AAAATGAGTGAATGGAACGCGCACATTTTCAATTAATCCCTGCATATCAAGGAAAAAA
 TGGTCAATCTTTATTCCTATTTCGCGCTTCGCAAGCAAACTCAACATTTCAATCGCAA
 TGAATTCGAAAAATCTGTTAAAAGATTGACAAATGAAATTTTGGGATTAGGGCAAGA
 CAACAGATCAGCCGACGATGACAACTTCGACGCTGCCAAAAATTTGGAATGCTTGA
 AAAACATTTCGAATGAAGTGATATGCCATTTATCGGTACAAAAGAATTTACGCCATAAAAA
 ATCTTGGGAATTTTTCGACACCAAAACAAAATGGGTCAAAATGACATTAATAAAC
 TGGCATTCGACGCAAAATGATTTGGTATGTCATGATTAATTTGCTGGACAGGTTTGG
 AGAAGCGTTAATTCAAATTTATTTACAGCATTTGGGCGATTTCGAAGTTAATATGATGT
 TCATTTAATCCGTAAGAGAAGTGGTTAAATTTGAATAACTTTCCGATGCTGAAGGATT
 TATGCCGCACTTTATTTTATGCTGAAATAATAAACAAAATCTTCTTCAATGGCTCGGA
 TGACTTTTGCATTACCAAAATTTTCATTGAACCAAAAGGTGAACATTTGGTGAAAAATGA
 TCTGCTGAAAGACGCTTTTAAAGGCCAATACAGCGGATACGGGACGATGAAGATTCT
 GCAAAATACATACACGCGATTATCGTTTATCGGTTTCGGCTTTTACTGAACATCAGGA
 AATGAAATTTTACAAATCTTCCCTTACGGGGCACTGCTTGAATAAGTGG
 TGCATTCGACGCGAACCCGCTTTCGACAAATCTCTTACAAAAGGGCGTTTGTGAGATA
 TTTAATCAACACATATTAAAAATACAGCAAAATTTTATGCGCGTCCCAACCTGTGTCTCA
 GACGGCATGTAATTTTACGATATCAACCGTTTCCCTGCCCAATCTTTGCCCTCTCAAA
 ATCGAAGCATCGCATCTTGAATATCGCGGTGCTCCCTGAACCCCATAGATATATCAATT
 TCTTTATACAGGATTTCCAGCGCGCGGTACGCTTCTTCTCATATCGCGGACAGCA
 TACAGGAACGCGGACGCTATCATTTGACCTTTTCGGCGCAAGCCAGCGCTCAAAATA
 TCTTGACCGTGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 ACATGCTCGGACGAGCTTTGATGACGACGACGATGATGATGATGATGATGATGATGATGAT
 TGGAAACAACTCAATGCTCGCGCGCGCTTTTCCCTGCTTTTCCGCTCTTCAGCTTCC
 ATAAATGCTTTGATATACGCTTTCGCGCCCAACAAATTTTAAATGCGGCCACATCTGCT
 CAGCTCACCCCGCGGTGCAATTTCTCGGAAGTCCATGAAGACGCGAAGCAAACTCGCG
 ACGTTCTTCGCGTCCGACGATATTCGGCGACGTGCGGCTTCGCTTTCAGCATTTTTC
 ATACACCATTTTCGGGCTTGGTGGCGAGTTGATTAATTTGGCGATGGTGGTTTTCGGGCG
 GCGGACAGCGCGTTTTCGATGCTTTTTCGGGCTTTCGCAAAACCTCGAATACGCGCT
 AATTCACATGCGGACATTAATGCTTTCGCGCTTTCGCGCTTTCGCGCTTTCGCGCTTTC
 CGCTCGCGCATCAATAACTGCAACCAAAATGCTGCGGAAGTTTTCGCGCAACTCT
 TCAATCGACGATAGACATCTGCGACAGCGTAAACGGATCCCGAACTTCTCCGCGCGC
 CGCGCGCGCAAAATTTCCGCTCGCGGTGTCGCTATCCGCTGAACCCGTCGCGCGCAATC
 GCGACCGGATTTTCACATCTCGCCGATCATTTTGGTTTCAGAGCTTCGGCTTCCATAT
 TTGACCAATACTTTTTCGCGGAGCGGATGCTTTGAAATCCGAAGTGTTTTCAGGTTAG
 GTAGTTTCTGCGCGCAACCGAATCGATGTAATGTAACCAATACCGGCTTTTCGCG
 TTGCAACCGCGCGCATCTTTCGTCACGTCATTTTTCGCAATACGCTTCATTTG
 CGCCCGCTGAATACCTGAATACCTTTATATGAATCGAATATCATATCAATTTGATTA
 TAAGGCAATCAATTCACATTTTCGCGCATTCGCGCGGACGCTCTCTATTTAAGCGACATA
 AGGTTTAAAAATCAAAAATCAAAATTTAAAAATCAAAATTTAAAAATCAATCAATCTATC
 GATTTAAACAGCCAATCACCAATCCGCGCTCATCTTGACTGAAACCTCAGATATTGG
 ACAATTCACCCCAATAAAAAAAACGACATGGGCAACCAACCATAGACTGACAC
 CAAGGGGGTTTTCGCGCTACCGCTATCTGGATTTCGGCATCAACCGCAACCGCGCG
 CTTCAATCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CTTTCGCAACTTTCGCGCGCGCGGACCTTGTGAAGGCTCGCGCGCGCGCGCGCGCTA
 CATCTTCGCGCGACGCGCGCGCACGATCAACATCGCGCAATCATCGCGCGCGCGCGGA
 CCGGCTGGAACCAACCAATGCGCGCGCACGAAGCACTGCAACCAACCGCGCGCGCTGCT
 GACGCGACATCTTTGGGGAATTTTAAACAAACCATCAACGACTACCTCGGACGCTTAC
 CTTGCAAGCATCATCGAACCAAAAAACCGGCGACGCGCGCGCTCTGCTCAATTTTAC
 ACATCACTTAATAATACACCGCAAGAAAGAGCAACCAATGACCTCAAAACCGCGG
 CTTTACCTCACTACGCGCGCAACCGCGCGCTTTCGCAACCGGCTTCGCAACCAATGATTC
 CTTATTCGACGCTTTCGCGCAACCGCTTTCGCAACCGCTTTCGCAACCGCTTTCGCAAC
 CAGAGAAAGCTGTAAGAAAGCAAGCTGCGACATTTTCGCGCGCTGATTAAACCGCACTCA
 AAGAAATCGTTTTCACGCGCGCGCAACCGAGTCAACAACTCTGCTATCAAGCGCGG
 CGCACTTCTCAAAATCAAGGTTATCACTCTATCATCTGTAAGAAACGCAACCAAGCGG
 TACTGACACCATCGCGGACTCGAACGCAAGCTTACCAAGTAACTTATCTGACGCTAC
 AAGAAACCGGTTTGGTGAATTAAGAGCTATGAAAGCGCCCATTCGCGAAGCACCATTC
 TCGTTTCGCTAATTCGGGTAAACCAAGAAATCGCGGTGGTCAAGATATTCTGCGCATG
 CGGAATTCGCGCGCGCGCAAAATCAATTTTCGCTGAGGACGACACAGATGCGGGA
 AGTGCTCTTGTGATGTTGAAGCGCAAAAGTTGATTTGCTGCTATGCTCGCGCACAAAG
 TATACGCGCTTAAAGCATCGCGCGCTCTATGACGCGCTAAACCAACCGCGCTGCGCTG
 AAGCGCAATTCGACGCGCGCGGTACGAACGCGGTTTCGCTTCGCGCAGATTGCGCGCC
 ATCAATCTGCTGCGCATGGGTGAAGCTTTCGCGCATTCGCAAGAAATTTGCAACAGACA
 CTGCACTACTCTGAACCTGCGCATTTTTCCTCAAGGATATCGAAGCATCGGAAGAG
 TCTATATCAAGCGCGCTGCAAGCACTGCGTGGCAACCACTTAACAGTCAAGCTCAACT
 TGTGCAAGCGCGCGCTGATTTTTCGCAAGCACTGCGTGGCAAGCTGCGTGGCAAGCTG
 CCGTCACTCGCGCTGCTGCAAGCGCACTGCTGCTGCGCGCGCTCGCGCGCAAGCATG
 AACTGCGCACTATCTGCGCATCACTTTCGCTGCGTACGACACCGAAGGAAGTGC

Appendix A

-314-

AATTGCCGCCGAAGTGAATTAATCCAAATCGGCAACTGCGCGAAGTGTGCGCGGTGT
GGGAATGTTCAAGACGGGATGTTATTTGAACTCGAATGAATGGGACGCGATTAAAGCG
TACCACATGCGCTCCGAACCTTTAGACGGCATTCGAAACAAAGCAATCAAGAGAAJAA
TATGAACGAACAGATTAGATTGTGGAACAATTCGACAACTGCTTGAAGATTTTGACGG
CGTTACCGTGGAGGGCGGCGTGATTGCGAAACAGCAGCGGCTGCGAAGCGGGGCGTG
CAAAATCTAAATCTCAGGCGCGTGGAAATCGCGCAACAAACCACTTAAACATCAAAAA
ACATTAAAGAAACCAATCGGACACACCGCGCGTTCAGGTCCGCGCGGTGATCAAAATC
GCGAACCTGCGCAATCTGCAAGGGAGCGATTGCGCGGAGCGCGATCGCGTGGCGGCG
GCGCGCGTGGCGCGCATCTATGCGCGCTGCAAAATCAAGTGAACGAGGCGCATCATCGA
AGATGCGAAATTTAAATCTTACGGCTGCGGCTGCGGCATCGCTTGTCCAGCGTGAATTAC
CGAGTGGGTTAAAGGCAAAAGCGTGGATGACGCGCTGGCAATCAAAACAGCGAAATCGC
CGAGGAGTTGGAATTTGCGCGCGTAAATCTCACTCGTCCATCTTTGGCTGAAGATGCGGT
AAAGCGGCGCGTTCGCGACTACCGCAACGTCAGGAJAACAGTAAAGCGCTTCAGCGG
CATCATCCGCAATGCGCTGCGACACACCGCGCGTTCAGGTCCGCGCGGTGATCAAA
CAAGAGGAATATGATGATCCCTTACCGGAGCGCGCAAAACCACTGATGATCTG
GCGAAACGCGCGCAAGGCTTTGGCGTACGCTTGGGTGGAACACGCGGCTGCTCGGG
ATGGCGTACAACTTGAATTTGTGACGAAGCGATGGCGACGACTGATTTGCAAGGA
CACGGCGCGCGCTTTATATCGATCGGAAAGCGTGGTTATCTGGATGGCAGCAAGTC
GATTACACCAAGAAGGTTTGCAGGAAGGTTTCAAAATTTAAACCCCAATGTCMAAGAC
CTTTCGCGCTGCGCGGAAAGCTTCCACGTTTAAAGCATAAACGCGCGGACCGTATCAA
AACCGTCCGCGCATTTTGGCTCTCGCTGCTTTGAGCTGCGCTTTGGCTTTCTTTTC
GTTCCACCTTTGCGCGCAAAATCGATTCTTCAATAGCTTTTAAAGCATTTGCGGT
TTTTGCTTTTATGTGCTGCACTTTCGCGCATATTCAGTCTTTGTTTAAAGAGCG
CGAGTTAAAGGCAAAACAGTTTCTGCGAAATCTTCAATTTATCATCTACTATGTC
CCAAATTTTACCGCTCTTCGCGATTGAACCGCGTTTCGATATCGACGCGAAATCTGGA
ACAAACCTACCGCGCTTTGCGCGCGTTCATCCGTAATTTGCTTCAGCTTCGCG
CTTTGAGCAAAAGCAGCGATGATGATGTCCTCCACATCAACGATGCTTACCGCACTT
GAAACCCCATCGACGCGCGCGCTACTGCTGCAAAACCTGGGACATCGATGCGAGCG
GCGGGAGCATACGCTTTGCGCGCGGATCTTATGCAAAATGGAATGGCGCGAAG
GCTGATGGAGCGTATGCGCGACAGCAATCTGCGAAATCTGCAACAGAT
CGCGAAGCAAGCAAAACGTTTCTGCGCTCGAAGCATGTTTGGCGCAACAGTAA
CGACACGCGCGCAACAACTGCGCGCAAGCGAGTTTCTGCAAACTCGCAACGAAT
TTCTCGCGCATTAATTCGCAACGCTTTTACAGCGGCGTACCGCGCGACCGTTGCGG
TCAAATATGCTAAATTAAGCAAAATTTTTCGCAATCGAACAATTAAGAACCATGACCG
AGCGAACCTCGCGCAAGCAACAAATTTGCGCGTCAAGACCTCGCGGTGAAGCTTGAAG
ACGAAATGCGCAAGCATATCTGCTTACGCTACGAGCGATGCTTGGCGCGCGCTG
CGGACCTTCGCGCGGCGGACGCGGATCGCGCGGCACTTCGCGATACCGTCAAGCTGCG
TGAACAACTGGAATGCGCGCTCAAAACAACTGGCGCGATTCGCGCGACGCTCATG
GTAAATACCAACCCCGCGGATACCGCGGTATACGACCATCTGCGGTATGGCGCAAA
ATTTGCTGATGCGTTATGCTGCTATAGACGAGCAAGGCACTTGGATGCTGGACGCGG
TTGCGCGCGCGCATGCGCTACCGCAAACTCGCATGGCGAAATTTCCCGCAAAATG
TGCGACAGATTGAGGAAGAACGTCATTTTGGCGCGAATACGACGATGCGGAACAG
AGCGCTTGTACTGCGCGCGCGCTTTCGCGCACTGCTGCTCAACGGCTGCTCGGATCTG
CGCTGGCATGGCGCAATATCCGCGCGCACTTCGCGATACCGTCAAGCTGCG
TGGCGCTCTGCGACCGCGCAAGCAATCGACGACTGATGCGATTAACGAAGCG
CGACTTCCCGACGCGGCGCAACATCTACGCGTTGAAGCGCGCTGCGCGAAGCTATAAA
ACGCGCGCGCGCGCGCTGTTATGCGCGTGAAGCGCATATCGAACCATAGCGCAAAAG
GCGAAGCGCGAGCATCTGTTATCGCGAAATCCCTTATCAGGTCAACAAAGCGCAAGTGG
TCGAGAAATTCGCGGATTGGTTGCGGGAAGAAACCTGAAGGACTTTCGAGCTCGCG
CGAAATCGACAAATCGGTATCGCGCTGTTATCGAGCTGAAGCGCACGAAATGCGG
AAGTGTCTTAAACCACTATCAAACTGCTTCGCGCGAAGCAATTTGCGCATCAATA
GCGGTGTTTGTGCGCAAGCGCGCTTTCGCGCTGATGACGACGATCTGCTCGAT
TCTTGCGCCACCGCGCGAGCTGTTACCGGACGATGCTTTTCGCGCTGAAGAGGCA
GCCATGAAGGCGATATTGCGGAAGCGAAGCGCTGCGCATGCTCAATATCGATGAATCA
TCAAGCTCATCAAGAATCGCCACGCGAGCGAGGCGAAGACAAATGCTTTCGCGCG
CTTGGCGAGCGAGCTGTTGAAGAAATGCTGACGCGTTCGCGCTGGATTGGAATATGA
TGCCTCGCGAAGATGCTTGGCTGCAAACTCGCGTTGAAGAGCAAGTATTACCTGAGG
AGTTTACGCGAGATGCTTTTACGCGAGCGCTGCAAACTGACCGCGCTGATGACGAG
AGAAATATGTCGCGAAGCGGATGCTTACAGCGCTATTCGAGAGGCGGAAAGCTG
TCTCAAAACCGCAAGCGATTAACCAATCATCGCGACGATTCGAAGAAATCAAAACCA
ACTATGGCGACGACGCGCGAGCAATCAACCGTTGCGCGCGGACGATTCGCGATGAAG
ACCTGATTCGCGACGCGAAATGCTGTTACCTGACGACATGGCGGCTATCAAAACCC
AGCGACACCGGACTATCAGCGCGAGCTGCGCGCGGCGCGCGCAACAGCGCGCTGCA
CCAAAGCAAGACTTTATCGAANCCGTTTGTTCGCAACACGCTATTTATGATGT
GCTTTACCAATTTGGCGAGGTGCTATGGAATTAAGTTTCAAACTCGCGCGAAGCGCGAC
GCAAGCGCGCGGACGATGCTTACAGCGCTATTCGAGAGGCGGAAAGCTGCGAGCTG
GCGGATTTGCGGATACCGGCTTCGCGAGACGATGCTTTCGCGCGCGCG
AGGGAATGGTGAAAAGTCCAACTTTCCGCTTTAAAGATCTTCGCGCGCAAGGATTA
AAGCATCTGCGCTCAAGAGGCGGCTTCTCTGTCGCGCTGCGCAACAGCGCGGTGCGG
ACGACATCATGCTGTTCTCAACTTAGGTAAAGCAATCCGCTTCAAGCATACTGGGAAA
AATCCGCCAACGCAAGCGGAAATGCGCGACATGAAACGAAATTTCAAGCGCGATCG
AAGRTGAACCGCGCGACGCGAAGCAAGCACTGCGCGAGCGGCAACACGCGTTCGCGCT
CGCGTGGCGGACGCGGCTTTCGCGGATATGCGGCTGCGCGACGCGCAAAATGCTCA
GCTGATTTACTGCTGCGCAAGCAAGCGGCTTTCGAGATTTTACCGCGACG
CCAACGATACGGAACCGACCCGATTTGCGATTACAGCGCGCAAAACAAAGCGCGG

Appendix A

-315-

AAGGCAATATTGCCATTAACTATGGGAGCGAAACGGCGATTGGTCCGCCCAACCTTGG
 TCGCGGAAACCGAGGATTGTATGCTGATTACAGCGCGGCCCTACTTATCCGCAACCAAG
 TCGAACAAATCCGCGGAAACGGCGGCCGCGAGCGGCTGAACCTGATTAACTTTGGACG
 AAGGCGAAACCTTGGTATCGCTGGAACTGTTCGCGAAGCAAGTCCGAACCTTCGCGAGC
 CTCTGTAAATTTCCAAATGAACCGAACCGGAAGTCGGAAGCTGAAATCATCTCCCGATG
 CGGTCTGAAGATTCAGACGGGATTTATTTATCCCTTCATCGCTCATCGAGCTTCTCACAA
 TATAGCGGATTTATAGTCAATTAAAJAAAGGGGCTGCTGATTAACATAGGGAATTCGA
 ATTAACTTAGAGTATGCTTGGCCCTGAGCAAAATGCTGATAGCCGGTATACAAATAACT
 CATTTAGACTGTTTGTGCGAGGCTGAACGTCAAGAACGACAGCAGAGATTATAGAGCGTTAA
 TAAAGTAGCCGAGCCTATTATTTTCATCGTTTACGATTACTTATTTTCAAAACAGTC
 GCATTTGGAAATGTTTGGTGGCGAAGTAGAAGCAGATGAAGATTATTTGTGTAACGACA
 AAACCATATCAATGGAATTGAGAACCTTTTGGAACGGGCAAAACGCTCATTTACGAACTT
 TGACGGCATTTCCCAAAGCGCATTTTGAAGTGTATTTAAAGGGGTACGACGCGGTTTTAA
 CAACAGTGAATAGAAAGTCAAAATTTTCATTTTAAACCAATTAGTAAATCGAGSTATTATC
 CTAGTTATCTGAGACGCGCCCAAAACAAATGATGATCAATTTCAACTTTGAGGCTTAA
 CCATGTCATACTCTGCGGACTTAAAGAAACAAGGCTTAAATCATATAGTGGATTAAATTTAA
 ATCAGGCAAGGCGAGCAAGCGCGACAGCTACAAATAGTACGGCAAGCGAGGCAACAC
 CGTACTGGTTTAAATTTAATCCACTATATTACGAACATGCAAAACATCAGCCAAACCG
 CAGCAACGCTTAACTTGTCAAGAAACACGCTTTACTGTGGATTTCGCTTAAAAAACAAA
 CAGGCAAGCTTAAACATCAAGTTACCGGCTTAATGCCGTCAATGCCGTGGATAGCGAAACAC
 CGGCTCAATATGTTGGGCAACACCCGAGCTATGTCATGAATGCAATGCGCAAACTTTTG
 AITGACGGGCGACCATTTTGTCTACTCAACAGCTAGGGATACGCAAAACAA
 GACCAACATTTACAAAGAACAGACCGGCCAAAGTAAAGCATTTTACACAGCGCGG
 CGAATTTTCCGACTACCAACGCTGTTATTTGGATGAACAGGATTTGACGCTACTCTGTT
 CCGTCCCTATGCGCGCAGCTGAAAGGCGAAATAGTGAAGCGCAGATAAGTGGAAAAAG
 ATATAGTGGATTACAAAAATCAGGACAGGCGAGGCGAGCGCAGACATCAAAATAGTA
 GAGCAACGATTCACTTGTGCTTCAGCACTTAGAGATCGTCTCTTTTGAAGTAAAGCG
 AGCCAACGCTATCGGTTTAAATTTAATTCATATAAAACGCAAAACGCAAAAGCG
 GCGCACTTCCGCAATCAAGTTTCAGTCAATCAGATAAGCTTGGATTCTTTGGTTTTG
 CTAGTATTTCTGAGGCTGCGCAAGTCAAGTCAAGTCAAGTCTTCTTGGTTTCTG
 CATTTGSCATTCAACGCTTTTGTGCTGTCGCTACTCGGCATCAGCGTTTCGCAATA
 TCGCGGGCAGTGCCTGAACGCGCGTTCAGAGCGCTTTGACAGTCTTCTTCTGCG
 CTTCCTGGCAATTTGCTGATGAAGGCTTTTACGCTTGTGACGCTCTTCCAGCGGTG
 CTTCGGTTTTCGCGCTTTTGATGCCAGTTTCGCTGAATTTATGCGCTTGGCGTTTAC
 CTTCAGCTTTTCGATTTGTTGGCACAGATTTATCCATCCGCTTTTCCATGTTTCTGTG
 AGGCTTCAGCTTATTTCTGACGTTTGAAGCAATCTTTCCAGAACCTCGCACTGAGCTG
 TCGCGCAAGCTGTTTATGCTTCCATGATGCTTGTGCAAGGTTTCTGTCTG
 CCAATGCTCTTCGCGCGCGCTCTCTTCGCGCTCAAGTCTTCTGTTCTTTGTTCA
 CTTTGTCCAAAGGCTCTTAACTAGTGCATAGCTCGGGAACATATATGTTTAAATTTAT
 GCAAAACCATATATCGGATTTGCAAGCTCTGCAAGTTTACCGAGCTTTTCTGTTG
 ATAAAAATGCGCTTTGAAACGCTGCGCTTCAGAACGCAATTTTTCGCAAGTTTATTTG
 CGGTTGCTGCGAGGTAGAGTTTATCAGGCGTTCGTCGAAGCTGCTGCTTTTTCGCGC
 CGGTTTCGCGGCTCAGTTTCGCCCAAAATGTTTATGACAGTTTTCGCGAGTTCCAG
 CCCACTGCTGAGCTGTTTATGCTCCAAATGATGCTTGTGCAAGTTTCTGTCTG
 TACATGGCAATCAGCTGCCCATATTGCGCGGTTGACCTGTGCTCATGAATGAGGTG
 GTGCGGCGCTTTCGCGGAAGGTTTTCGCGGAGCAGCTCTTCGATGCGCACTCATC
 ATACCTGCGCTTTGAGTTTCGCGCGGACTCTGTCGGGTTTTCGCGGCATAAAGCT
 TCTGCTTGGCGAGCAGCTTTCGCAAGGAGGATTTCGTGTTGTCGCGCAGTTTCTGCTG
 TTTTCAAGCGAGGCAATCAGGTGATGCGGGTAAATGCTGCTGCTTGTGCGACAGTTGG
 AAAAGGCGTGTGCGCTTAACTGCGCTTTCGCGCAGATTAATCGCGAGGTTTCTGTG
 CTGCTGCTTTCGCGCTCAAGCTCAACTGCTTTCGCTTTCGATTTGAGCTGTG
 ATGATTTTGGCGGCTGCGCAATGTGCTGTTTGAAGGCTGAAGGCTGCTGCGCG
 CGTAGTAGTTGATATACAGATGCGGATGAGGCGGAGATGACGGGAGGTTTCGCTG
 AGCGGTGTTGTTGAAGTGTGTTGCTCATCAGTGTGCGCGCTTTCGAGCTTTCAATGAAG
 TTTCTTCGCGGATACAGCATATCGCAATCGATGCGGACACAGCTGTACCGA
 CCGCGACCCCAATCCAAAATTTCAAACATATTGGCGGTGCTGATGCCGAATTCGCGAGC
 GCTTTTGTGTTGGTGAAGCGCGCGAGAGTGTTCGCGACGGCTTCTGCTGCGCGCA
 GTATTGATTTTTCGCGTGAACATGTCGCAATCGCTGCGCGGTTGCTGAGGTTTCTGCTGGTAAAT
 GTTTTGAAGGCTGCAACAGCTGTTTTCGCGGATGCTGCTGCAATGCTGCGCG
 AGTTGCGAGCGCTCAGCTTCGAGAGAGTGTGATATTGAGCGCGGATGACCGAAAGGT
 TTGAGCGCGGTACACATCATCAGCGGACCAATTCGATCGCGGATGCGAGTTTGACA
 ACGTGGTAAAGCTTGGTTGGTATAGCGCAGCGAGCTTCGCTGCGGACTTGTGTGCA
 AATTGCGCCATAGCTTGCRAAACCGGTTGACTTTGGCATACATCTTCCAGCTCAACC
 ACAATCGCGGATTCGCGGTTTCGAAGGCGACATCGAGAGCGCGGTTTTCTGCGT
 GATTGATTTTTCGCGTGAACATGTCGCAATCGCTGCGCGGCTGCTGAGGTTTTCGCGT
 CGAGCTGAGCAAGCTGCGCAATGTTTTCGCTGCTGAGGTTTTCGAGTATGCAAG
 GTGACTTCGCGGACTTCGAGCAAGTATGCTTCGCAAGCTGCGGCTTTCGCAACAT
 TCGCGCATATGCAATGTTTTCGCTGCTCAAGTATTCACAAATTTGACATGCGCGG
 AAGTGTGAAGTGTTCATCTATATGCTCCTGAATGAGGTTTTTGTGTGGGATGA
 AGGCTCGCGGAACTCGCGCAAGCGCGCAGCAGCGTGTTCGCGCATTTTACAGCGCAT
 TGTGGGATGCGCTGCAAGTGTCAATCTTTCGCTGATGCTGCTTGTGTGATGCTT
 TTTTCTGTTTTCGCAATTCAGCGCTGCGAGCTGCGCAAGCGCGAGGCAAGTTCGAGT
 GCGAGATGTCGCAAGCTGCGCAAGCTGCGCAAGCTGCGCAAGCTGCGCAAGCTGCG
 GCAATTTCTGCTGCGCAAGCTGCAACAGCTGCGCAAGTTCGCGCAAGTTCGCGCAAGCTGCG
 TGTGCGGTCAGTTCGATGACAGAGCGCGCTTTCTTTCGCGATGCTGACCGCATCAAA

Appendix A

-316-

AGTTGCGATAGACGACCCGCTGTTGGAATGGCAACCAAAACATCCTGATGCTCAAAACA
GATGCCGCCATCAGCTGCGGTGTGCGTATCGACATAGGCGAGCGTGGACATGCGCGAAACGG
AAAAATTTATGCTGCGCCTCTGTCACAAATGCGGAATTCGCGACACCGCTAAAACTCG
ACGCGACGGCGTGATCAGCGTGGCAATGGCGTTTCAGCTCCGACCTCTTCAGGAAG
CGGCGTTGCGCCACAGCGAGCGGCGCGCATTTGCCCAACATTTCTCGACACGCTTGCC
ATATCGTCTGCGCGTTTGAGTTCTTGCGACATAGGCGACATCCCTCATAGCCGATGCTG
CGCGAAACGGCGTGTGAATCTGGGAGCGCCTTTTAACAAATTCGCGACAGTGGCAAACTGG
ATGACGGTTCGCGTGTGTGACGGACGACATCGCGAATTTGCGCAACGGCGCGATGGACG
AACCATTTTGGGTTGCCCAATGACATTCGCGCACTTTTGGCTTCGCGACGGGAAGGTTT
GCGAGTGATTCGCTGATTTTGTCTTAACATAATGATATGCGCTTCGATATGCGAGCCGCG
TGCAGGAGACCGGTGTGTTAAACGTTTCTCAAAATGGTTGTCAAGAGCGCGACCGCGACC
GGAAATTCGCGGAACTCGCTCAAGACGACATACCGGGAATCGCGGACAGATATGCTTC
AACTGCGCCTTTGTTCTGGAACCGCTGCGGAACGGGGAAGTTTGAJAATATTCACACG
CGCGGAATATATGCGGACGATGACAGGTTACGCGCGCGTTCGCGGAGTTCGCGGCGG
GTTGGAAGCACCGCTGCGGAGCATGCGCAGAAAGATTGCCAAAGTCTGACGCGCAAAAGG
CGACGCGCGCTCAAAAGCTTTTCGCTGATTTACAGACGGCATCAGTTTGGCGGGTTTGGC
TTTCTGTTTTCGAGCAAAAGCTCTGTAACCAAGCTCAAGCCCGCGCGCTCAAAAGCG
TTGCGGGGAAACATGGCGGATTTGTTTTCGCTGACTGCCAAATCAGCACTTCATATATC
GTCAAGCGCGGGAACCTGATGTCGCCGCTCTGCCCGGCCAAAGCACCGAGCTGGT
GCTGTGCAACCAATCGCTCAGCGCGAGCGGTGATCGGCGGCGGATTAACAGGTTTGGGGG
AAATTTGACAGGCTTTTGGCGGCTACTTCGATCAGGCTTTTTCGCTGCTGCTGCTGCTAC
GCGCAATCGCGCGGCTGAATGCTGTTCAAAAGGATGAGGCTGTCCAGCGCAAGCTG
ACGGGTGGTTTCGATGGAAACCGCAATGGTGGTGGTCACTGACACCGATCGCGCCAA
AATCGGGTTGGCGATGCGAAATGCGCGCTGCCGTACGCGTGTTCGACCGCTTTGATTCAG
ATAGGCACGCGACGCGATCGGTAAACGTATCGTAGCTTTACACGGAACGCGCGGCTTT
TTCAATGACGCGCGCGCGGTTTTCAGCGCAAGCGGTGATTCGTCGCGCGATATGCGC
GACGAGTCGGGAGTATCCGCTTTGTTTATTCGCGCTGAGAAGCATGCGAGTCACTTCCT
GATGGTTCAAAAGAGGTTGATCGGATTTGCGGTTTTCGCTGTGCGCTGTGCTGCGA
ACAGCGCTTTTTCGATGCGGATTCGCGCAAGGATTCGCGCAACATGCGCGCTGATTCG
CATCAAGGTCATATCAGCGCGCTGCTGCGCGCGGTAACGGCGGCTGATGCAACCAAG
CGACAACCTGCGGAACCGCTGATTCGCGCTGTAACCTGCGGAGCTTCGCGGAAATCGAAG
CCGTAATGCGCGCTTTCCATACCCAAACCAAAACATCGGGCTGTTTGATGTTTCA
GTGCATATCGACACAGCATCGGATGTAATTCGTTTTCGATTTTCGCTTCGACCA
TAGGATCCACATTCGCGCTTCGCTTTGTTCTTCAACAGGATTCGCGGACCAACCGG
TATTCGCTGCGGCTGCGCGCTGCGACGATGCGTTTTCGTCGCAAGGTGATGCGGAGCT
TTTTCAATCGCAAAAGGCTGCGGACGCGGTAAGGATTCGCGGAGGAGCTGCGG
CGGAACCTGCGCAACCGCGCGCTCTCTGCTCAAGTGGCGCTGCAAGCATTCGCGCA
CTGCTGACGCAAGAGCTGCGCGCGCTTCGCGCGATTTTCGATTTTCGCGCAACCAAC
TATTTGCTGCTTTTTTATTTACAGACGGCATATTCGTTATGGAAGAGGGTTGAGCAAT
ATGTCGCGCGAAGCTGTTTATGCTTTTGATACCAATATCGGAGCTGCTTTTATAGT
GGATTAAATTTAAACAGTACAGCGCTTGCTCGCTTCGCGTACTATTGACTGTCTG
GGCTTCGCTGCTGCTGCTGATTTTGTGTAATCGCATACACTTACTTACTTATGTCAGA
CGGCATTTCAAAACCATGCTGATGAGTCAAAAGCATTTTCGCGCTTTTCGCGCGCA
TGCTGCTGCGGATCGCGCAATAGTTCGCGCGGCTTCAGCGCGCACAGGCTGCGCGCT
AGCTGCGCGCGGCTGCTGTTATTTGTCAGGTTTCGAAATCGGCATCACATATTC
ACGCGGCTCAAGTTCGTCGCGCGGTTAAACAAAGCGAGTTTGGCGTTTATCACATCCA
CGAGCAGGCGCTGTAAGCTTCGCGCGCGCGGCTTCGAATGCTTTGCCAAATCGGTTG
CCAGCGGCGACGGTTTCGACCTTATTCCTGCCCGGGGTTTCATCTGCGCTATAGAGG
CGACGGATTCATAGGTTGCAACTCGATAACGAGCGGTTGGCGCGGCTGCGGCTGCGCT
CAAAATATGCGCTTCAAACTTTGAGAGTCAAAAGCATTTTCGCGCTTTTCGCGCGCA
TGCTTTTCGCGGATCGAGGAGGAGACGCGCTTCAGCGCTGCTGATTCGATGCTG
CTTTAATGCGGAGCTAGGTTTCGTAAGCTGCTTCGCGGAAGCTGATTTCTCAAGAT
AGCGGTTTCATGCTCTGCGCGCGGATATTTGCTGCGCGACGAGCTTTTCATGACAGACT
CGACGGTCAAGCGCTTCAATGACTGATGACTTTGACTTTTTCATGCGCGACCGGCTCGG
CATCGAAGCTGCGGGGGCTTCATCGCGAGTCATGCACACATCTGATCAATGGTTT
GCACCATATGCGCGAAGCGCGGATTAATGCTGTAACCTCACCGGCTCTTCACACCGA
GCTGTTGCGGCAAGGCAAGTCAAGTCAAGCTTTCGATATATTTATGTTCCACAGCGGCTCGA
ACATTCATATGCGCAAGCGAGCTGCGGAGCTTTCGCGGCTGCTTCGCGGCTTCGCGG
GCTGCTGCGCTAAATTTGCGCTCTTTGAAATACCGCGCAACGATGATTTGATTTGCT
GGGAAGAAGCAAACTCCGATCCCAACGGTTTTTCACAAACTACGCGGAGATTTGCGGCT
TCAAACCGATGCGCAGCAAGTTTTCACAGGCTTCGCGGAAGATTTGGCGCGGTGGACA
GATAGATGACGAGCTTTCGCTGCTTTTCGCGGCTTTGACCAATCGCCAAAGCGGCA
AATCGCTCGCTGCGTACATGACATTTGAGATATGCGAAAGCTTCGACAAAGCATGCGC
AAGCTCATCGGAAAAATTTCTTTCACATGGAATTTGGAAGCTGTTTCACCTTCGCGCA
GTAACCTTCGCGCTGCGGAGCGGCGCGCAAAATGCGCTTCGCGGATGGA
GACACCGCGCAACTGCTGCTGACACAGCGGCAACAGCTTCGCGCATCGCAATCGC
CGTGCACCGCAACACCAAAATCAAAATTTGTTGTGACTCATGATATATCTCGCTC
AGGAAGAATTTTCGATGCGCTCTGAAACCTGTTTCCCGCATCAGCTGATCGCAATA
TCGGAACAAAGCGAGCGGCAATATGAGTAGTAATACACACCGCTACACTTTTGT
CTATTCCTATTTCACAAATTTTTCGACTAGTCCAAAATCGGCGAGTTTCCCTATT
CGCTTCACCAACTGAAAGATTCGCGATTAATCAATCAATTTCTTCAATGCTGATTT
TTTGTACAAATACAAATTTTGTATATTAATACACCGCTTCGCACTTCAGAGCG
CTACCTTTTAAATAAGCAATTTTGAACAAATACGAGAAAGCGCGAGACCGAGC
AGTACAGATAATACGGAACGATTCACCTGGTCTTCGACCATTCAGAGATCGTCTCT
TTGAGCTAAGCGAGGCAACGCGCTAGTGGTTTGTGTAATCAGTACTACTACGCTG

Appendix A

-317-

[illegible]

Appendix A

-318-

CTTCCGCGAGCGACAGCGTTTGGAAACCGCTTCGGGGCTAGGCGAGAGCGACCGCCGCGCGG
 CATTTCGGCCCTTCCTCCACCGCGGGAAACCTATCTTGGAGGACGAGCTCAAAAGCGCT
 CATTTCGGCGCTGTTCGGCGCGAGCGCAATCGAGAGCGAGTAAATTTGAAATCGCTCT
 CTGACGACCTTCGGAAAGAGCTCTGCTGCTGTGTGAAAGCGGATATGCTGCTATGACACA
 AGGTTTTCAGGATTTTGGGGCGAGGCTGTGAAAGCGAGCGAAACCGTTTGGCCGCAATAT
 TGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 AANAACCGCGCGAGATACCAAGCTTCGCGCTTACTGCTGATTTGCTCGACACCGGAG
 CGGGCGGATTTTGGTGGAAAGACCGCCCGCAAAAGGACCTTTGGGGGGGGGATTTAGTTCGT
 CGCGGCTTTTGAAGATTTGAAAGGCTTTGCGAGCTTCGGCCGCAATATCCCTGACCATC
 GCGCATTTGAGCAGCAACCAACCGCTTGACCCAGCGCTCGAGCGACCGCGCTGATTAAGC
 TACGCGCTTTGAGACCAAACTGCGCTGTGAAGAGCGCTCAGGCGAGGATTTGGATTAAGC
 CGCGCATTTGAAGATTTAGCTTTTCGCGAGCTTTTGAAATTTATTAAGCGAGTAATG
 TGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CGCATGAAATTTGCTGCTATTTTAGGCGCGGGATATGTTCAAAATGAGCATTCGGCAG
 GGAAGAGATCGGCAATTTAAJJAAGATTTAAAAGCAAAAGAGGTCAAJJAAGCAATGMAAC
 CCAATTTAATCAGAAAGCAAGCATGATGACCCGATACCGCTTCAGAAAGAGATCT
 TGTGCTGAAATTTCTTTTAACTTCGGATACCATAGTTTGTGGATTTTTCATTAAG
 CGTATGACCGGGTCTCAATTTTTCATGATTAACAATTTTAACTTTTTCGTAAAAATTT
 TTTGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TTGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 TTTGCGGAGCAGCAGAGCATATAGCATCTCAAGTGGCTTCCTTATTAAGTAGAAGTG
 CAACACATGTGTCAGTAAAGAAACCAAGATGTGGGTACAGAGGATCTACTGATTAATG
 CATATATGCTGTCTTTGTTTACCCTGTTATACAGATTTACGAGAGGCTACTGATGTTG
 TCACATCTGAGAAACCAAGCTCTGTGACCGAAGAAAGAAAGAGTAATGTCAGCTGGT
 TTGGGCGGAGGAGGAGCTACGTCGGGTCTCAAGCTCGAACAACATGTTTACCGATGAGT
 CATATATGCTGTCTTTGTTTACCCTGTTATACAGATTTACGAGAGGCTACTGATGTTG
 ATCCACATGCTGCTGATAAATCTCCGATCTCACTGACCTCTCTGTCGGCTGGCGGCAC
 CGTATGAGCTCTGCGGTGATTAATAATTCGATTTCTGCAAGCAAGAGCGGTCGATATG
 TTGGCGGACATTTTGGTGATATTTAGCATGTAGACCTTGCAATACAGTACGTTACT
 AAAATTTATGTCGATCTCATTTTCGAAATAGCAAACTTTCTGATTTTTCGCTATTT
 TCTCCATATTTAGAGGATTTTAGGCATTTGAAATTTTGGCCGATTTTAGTGCGCAT
 TTTGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 CATACAGAAATCTGACCAATCAATTCAGAGCTTCAAGCTCTTGAAGTAGCGGAGTTAG
 CTGACAGCTTAGACCAACATGATTCAGAGATTTACTGAAATGCGGAGATTCAGATGTT
 CGCGCTTTGCGGGAGTACGAAGAAGGACCTTTGCAAAATCTTTCTTCCGCGCAGAGT
 AAGAACCAACACACGATTTGCGGCTGTTTCCGCAAAATACGCGCTAATCTACCCAAT
 ATCCGCTTAATCTCCCGGAGTACCGGATACAGAGCTCGCTGCTGCTCTTTAGGCGG
 AGGGGGCGCATTTAGCTTTTGGGCGGCTTCAACGGCTTCAAAACAGTGCCTTAGTG
 TTTGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TTGGCAGTACCGAGCTCTCTCAACCAAGATCAAGGCTTTGCGGAGGATGATCATCTGCT
 TTGGCTTTGTCATCTTGGCTCAGCGAGCGGCTGGCGGTGGTTTGGCGATATGCGGCTCAG
 CAGCATGTGCTCTTCAGATGATTCGCGGCTTTTGGCGAGCTCTGCTGAGCTCTTGGCGCAT
 GAGCTGCTGACCTTTTGGGCGATTTCTCAACCAACGCGCAGAGGCTTTGCACTATGGCG
 TTGGGGGGGCTTAATGGAGGATCTTCGCTATAGGCTCTGTCATAGCGGAGGTATGTGCT
 TTGTACAGCATCTGTCAGGAGGCTTTTGGGATCTTATCAGCAATCTGCTGCTCTTACT
 TTTGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 CTGCTGCGGCTTTGCGATTAATGGCGGCTCTCAACGACGCGAGCGGATGTCTTATT
 TAAATCTTTGCTATATGCTGGGCTTTAATCGATCTCAACAGCTCAGTCAGGATATGCT
 TTGGCGCGCGGCTGCTGCGAGCGGATCAAGGCTGATGATTCGGGAGTGCATCATCTGCT
 TAAACGCAAAACAGGCTTAAATCTGATGGGGCTAATGGGCTTCTGAGTCGGGATCT
 CAGAGGCTGCTGCATTTCTGCGAGCAGCGGCTTGACATATGGACAGAGGGATGAGGAG
 TTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CAGCTGCCATCAATCACCGCTGCTCAATCAATGAGGAGGAGGCTCATGTTTGGC
 AATCAGCTTTTGGGCGGTTTGTGGGAAGAGGCTCTTGGAATAATCCCTAAATGCTG
 TGCTGGGATTTTGGGGATTTTGGGGATTTTGAAGAGCTCTAGATGAGGAGAAAGAG
 CTGACGCGCTTAAAGACAGGAAAGAGCTTTTGGCGGAGCTGCATTTGGTTTCAIT
 TCGCTGTAAACCGCATTAACGCGCTGTGAACCGGCTGAGAGCTGTAGAAAGAAAGAG
 CCGCATGCGCATCTCGCGCTCTTACCGCTCTGTAAGTACATACAGAGGAGGATTAATG
 TGGCAATGATCGGTGTGGTTTAAAGCGTGCAGACGTGGGATCGGATCAATACAGCGC
 CGCGGCTGGCGCAATCGGCTGCTGATTTGTGCTAATGTGGTGTTCATCTTAAATCAT
 TCGGCGTGGTGCTCTCAATAATCAGATGGGGGATTTGGTATTAAGCGCGGGCAG
 TCGCAATACGCTCGCGCTCTGCGCGCAGCAAGCGCGGCTTTTGGCCGACACAGGCTG
 CTGACGCTCTGCGAGCTCTCAATATCAATCTGTGCTGGCGGCGAGCTTTGGCTCTGCA
 TGGAGGAGCAATCTTCTGAGCAGCGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CAGAACGCAATCTGTGCGCTCCACCAACCGCGCTGCTGCTGGTCAATCAGACGCT
 GGCACATTTCTGTGAGTGTGGATTTTGGCGGACCGCCAGCTGTCACATATCCGACAGCT
 CCGCGCGCGGATCTGCGAGCTTCAAACTCTGCAAAATCAGCTGCTGCTGCTCTATAGC
 AGAATGATCTTCTGAGTGTGCTTCTCCCGCGGATCTGGGCAAGCGCAATCGGAGAG
 TCGATCTTCTGGTGGGCGATTCAGGAATCTGCCAAGAGGCGACCAAGATCCGACATCT
 CATATCAAGCAATCTCAGCTGCTGCTGCTGCTGCTGCTGCTCAATTCAGCGCTGCTG
 CATATCAGACGTCGCGCAGCTCACAGGCTTGTGAATACGCTGCGGCTCTTGGCGCT

Appendix A

-319-

CCACCGCCAACTCGTTATCCGGAATCCGGAAGCCAGATAAGCGCCAACTGATTGTCCG
AACGCTGCCTCATCTCGGGCTCCAGCGGCATCGCGTTTACGCTACCCACCGCAGTGATGC
TTTCTACTAAAAAGGACTGTTGTCTGCATTGGCGCGGAACTTATGTTTCAGACGGTGC
CGAGTATCGGACTGTAATAATGCCGACAAAACGCATAGGCGAGGCACGAGGCCAATACCA
CCCAAGTCAGAGTGGAGTGTAATACCCACATCCGCGCAGAAAGATAACGAAAACGCCA
AATCCCAACCGGAAGTCAGCGCGCTGACCGGTGACAGAAATTCGGAATCTGCTCCAAATCCG
GCACCGCGAGCGACCGTATCACCCTCTGTCTGCTGGAATAGGATAAGCGAGGAAA
GCGATGCGCGAACAACGCGGACCATTCACATCATACGTAAGTGGTATGTGCA
ACASATACGTCGCGCAACCGGCCCAACANTCTCAACAGCGCAACACCAACAAAGCA
CCGACACCCACTCCAAAGTAGAGAAATCCCGATGTACAGCACCTTGTCTATCACACCT
GGAAAAACAGAGCGGTAAATCAGCGCAACAGCTGCACAAACACCGACGACCAACATCTT
CAAAAAACCAACCGGGTATTGATTACCGCGGAAATAACCAAGTAAGTCAAACTTGT
CCAACTGCCCAATCCGAGGCGCGGAGCAACCAATATCAGTTTGGCCGAATATCTGT
TAGAAATTTGGCAAAAGCAATACCGCAGCTTATCTGTAACCAATCTGTATCAAAA
ATTGGGATGCTCACCTCACCTGCTTTTGGCAAAATGAATGGTGTGGCGTATCAC
ACCATACCAATCGGGTAAAGTGCCTATAGCCAAACGTTTAATAGGCTGCGGACTACCT
TTGCCTTCAATCCAAAGATTGGGCGCTAACAGCCATTGCGTTTCAATTAATTCGCTCT
GTGCGGAAGTACAAAATCTATCGTGTATATCGGCGAGATTGGCGCAATGCCGTGGTAAT
GGCGAGGATGATGAGGCGGAAAGGCGGGGACGGTGGCGATACGATAGACATAAATA
AAATATAGTTAGATTGGATGTGGATAACGGCTGGCTGGAAAGGAATATATTAAGTAGAA
AGAAATATATAAATAAACAGCAGAACGCAATGTGAAGATATATATGGGAATGTAAAGA
GAAGATGTGGAAGATCTCTGCTTTCAGCAAGGTAAACGGCTTAGGAATCGACTATAGTG
AGGATGCTCGGCTCGCTCTGCTATACCGCTTAGGACAGGGTTAAGGTGAG
GCTGCTCGCACTCTGTCGGCTGGGTAACTTTATTTTGTGTTTCAGGCGCCGGA
ATATCTGTATATTTTGTTTAAATAGATTTAAAGATGTAACTGCTCTTGACGATT
TTCAAGAAAGGAGTAAATTTCAAGAAAGGATTAAGTGACTTATTCAATGACAAGCA
CGCGGAAGTGACAGGGAATACTATCTATAAATCTTAGGAGGCTTGCATATCATAA
ACCAATCAGAAACATAGAGATAAAATATGTACAAATATAATCTTATACAAATTTAT
TGCAAGTGTATATGCTTATAGGAGCAAGGCTAGGCTGGGCACTTGTCTGCCCGAGGCT
TTCTATTTCAAGAAAGGATGCAACAGCTGTGGGCGCAATGCTGCTGATCCGCAAA
AACAGCGGAGCTGCTGCTGTGATGGGTGCAACTTTGCGAGGTAGACACGCACTTTAT
ATTTTCAAGCTGAGGAGTCTTAAGAAAGTCAAAACATTAAGAAATAGGGGCTGTAC
TAGATTAGCCCTAAATCCACACCAATCCCGCAAGATTTTACGCTCGGGAGCGGTGTGCC
GAGTGTAAATCGAAATTCGCACTCTTCAAGAACACGGGAAAGATTGGCATCAATTC
GTTCTATTTCGCGAGCAGCGCTTTGCGCTGATCCCAAAJTTCTCAATGCGTTTATGTG
GTTCTCGGGCTGACAAATTCCTTGGAAATGGTGATGCGGAATGGAATAAACCGGTTAC
GTTCAACTCTGTCTAGCACTCTGAGCTGTACAGCAATGCTGTGCGGCTGATTT
GTTGTTGATACAGCACTTAAAGATCTGGACTTGGCACTATTCACAGATAGAGTACAG
CGTGCCTGTATCGTTTCAAGATCGCGGAAGCAACCACTTTCTGCGCGCACCGGACACG
TTTGCTTTTACGCGCTCGCGCGAAATAGCTTTGCTGCAACTCGACGAGCGCTGAAAC
CTCATTTGGCAGCCAGGCGCAGATATGGCTGATGACCATCGGATTTTGGCTAGAACAG
GACTGCGGAATTTGGGATGGATACCCAAATATCGGCGAGCAGNAGCGGCGTAACCTCGAG
TCAAAAAAAGGAGCAGCTCTTCTGTACTTTTCTTCAATTTGAGTGTGTATCTT
CATATTTCGGGGCTAGCATATTGCTATCTAGTACGCTCTCAACAAAGAGAAAT
TAAATTTGCGTACAGCTTAAAGATCTGGACTTGGCACTATTCACAGATAGAGTACAG
ATCTATATGCGCAAGAGAGTTGTAAAGCATACGATATTGAATAGATTGAAATA
GATACTTAGATAGTCTGAAUACGGATTGTGAAACTTTTATTACGCGCATCAITTG
AAATGAAACTTAAAAACACTTATCATATAAATATTTCTTTACGTGTTTGCATATAA
ACTCAGTCCAATACAGCGCAATATTTATGGAATTTTATGATACACAAAAAGAAAT
ATTAATAATTAAACAAATAGGATATGTGGATCTATCGATTGGCTTAAATATTCTATTT
TAGCTTTTTCAGGCTCTAGCAATCTTTTATTTAGGCTGGTGTGTTTGTTCAGCTG
TTTGAAGAAATGTCAAGCTATAGATTTTAAATAGATATGATTTGTCTGTATATTA
AAATGCTTTGGCAGATAAAAGTATTTTGAATAGATAGTAGTCTATGGTTGGCA
GTAATGAAATATGGATGTGTTTATTTTCGGAATCATCAGCTGGGTATGCGGTGCTTT
TGTTTAAATAGTGAATATTGGAUAAATTTTTCGTGGCTTGGTATTCTCGGTAGTTTA
TATTTTATTTATATTGATGTTGATCTCAATAGATTAAAGAGAGATTTGAATTTCA
TTTGTGTTGACTTAACTCAAGGAGATACAAATGATTGGTAAGTGGTGTACTAABCA
ATGCAAAAAATTTCTCGGTGTGATGGAATAACGACGCTAGCAATCCCTCGGCTAGA
CTTGGCGGCGAGCGGATAGAAACAGTCAACGCGGCTTTCAGGCGCTAGAG
TGAGAGAGTGAATAGATGATACATCTTATGCCCAATATGATTTCACTAAATCA
TACCAGCTATTTTATTAATGAGCATATGAAAAATAAAATTTTACTAGTATTTA
TAGTTTACATATAGCTCTGATAGTAATTAATATAGTGTGTTGTTATTTGTTTCTAT
TTGATTTTTTGGGTTTTTGTTTTTTGCAACGCTTTCTGCTGCAAAATTTATTTT
TAGAAAAAACATATAAAACAAATATTGTTTTTATGCGGTTTCTATTATATAGGA
TGTATTTCATATTAGTATGATAAATAAATAATTTATAAATTCAGCATCAATAAAGG
AACAAATATATGATGATCTGAGTCTGAGTAAACCATGATATGTTATATGTTT
ATGACTCAAAATGATATGCTAAATTAAGATATCATAGATATGTTAGTGAATAGAG
AAACACCTTATATTGAGTGTGTCATCTGATGTAAAAATAAATCAATAGATTAGCT
TGGTTGTGGTATTCAATCATATGCTCCATGTGCGCAATTTATAAAATTTGCAAAAAAC
CTGTAAATTTTATTTTATATCAACCTCAAGGAGATTTATAGATAATGTAATTTG
AAATTAATGATGGAACAAACTTTGACTGTGTAGATAGTATAAAACATTTTCTTAT
TTGAACACAGTGTGTGATGCTATTAATTTTATTTATTTAAATTTTATTTGCTTTAT
ATAGCACTATCTTAATGAGTGGATAGTTTGGTATTTTATAGCGCAGCGCTCATCC
GGCTAGCAAAATGAAATATGTTGCTATTAATGTTTTCGAAAAATGGAAGAT
ATCTGGAACGTAATGAATATACAAACAGCTGGTTATAGTGCATTATAGCATTTGGT

Appendix A

-320-

AATTTGGCTAGTAATATTGCACGAGGTAGTACGTACGCTATTTGTAACGGACAAAT
GCCTCTGTTGATTGCAAGCCGCTCTCTCGGAATATATCTCAGCTATTGAGGAGCATAAA
GATGGTAAGTTAATATCAACCGCTTTCAAAATATTATTAGCGGATTTATATTCAATGGGA
GGGTTAGGAAGTACATTAATAGAGAAGATGGAUATATGACAGAGTGGGGGATTCATTAT
GCAATTGCTGGAGATATATTGCGACACCGCTATTGCGACAGGAGATCTCGTACGATAT
TCTACAGAGGAATTTATATATTGACACATGGAAAGGTTTGGGATGAGCTATTGGA
GACTGGTCTGGTATGATGACATGGCTGCGCGAGCGCTGCAATCTGAGGAAGATTT
GACGAAACCGTTGCGCGCANTACCACTATTACGACGCCCTCCOCCCTAGCATAGACGGC
GACGGCATAGAAACAGTCTGCGCGCAAAAGGCTTTTGAGCGACGCTCTTGACATACAGGGC
AACGGCATCGCGACGCCCATGCTGGGTTCTGCGGATGACGGTTTACTGCTCGCGGAT
TTGAAACGGCAACGGCATCATCGACACGCGCGGGAATCTGCGCGACACACCAAACTG
CGACAGCGGTTCTTTGCGCAACACGGCATGCGAGCTTTGGCGCGAATTTGAGATCAACGGC
GACAACTCATCAGCGCGCAGACGCCGCAATTCGAATCCCTGGCTGTATGGCAGGATCTC
AACCGACAGCGCTTCCACGCTATGAATTCGCTACCTTGAGATTTGGGATGATGATGATG
TCTTTGATCTCGGCTATAAAGATGTAATAAATAATCTCGGTAAACGTAACACTTTCCT
CAGCAAGCGAGCTATACAAAACGACGGTACAACCGCAAAATGGGGATTTACTTTTA
CGACGCGACAACTGCGACAGCGCTTTACGAACAAATGCTATCCATTAGCCATGTCGG
GAAAACACGATTTCCCGCTTTGTTTATGGCTGTCTAAACAAATTAACATAAATGATATC
ATTATTAAAAATAAATAAGATTTTAACTATTATTGACGAAATTTAGAGAAAGAGTAG
ACTGTCGATTAAATGACCAACATATGTCAGAAAGGAATATTACTATCGGACGACAGAG
CATATTTTAGGTACGCTTAACTGGTCTGCTGCGACAGAGGATGAGGTTGACTTTAC
CGGAATAAATGCTGCTGGTGTATGTCGACGACGCGCGGAGCAATGTATGTCGATC
ACGCGACTCTCATGTAATGAACCTGCTGTCGAGAATTGAAAACGCTATTTTAAGA
AAGGATAAGGGGAGAAAGAAATTTTGGTTTTTAAGCTGATGAACCGCTTGGAATATA
TGCACACCTACGATAATTAATATTTTCGTTTTTATCTACAAGCTATTATATATGAT
TGCTAAAAAGTTTATTTTAGATGCCAAAAATATATTTATATACTCTCATTTGTTTAT
ATGCTTTATTTGAATATATCTTACGATGGGGAATTTATATATTTTATAATAAATTT
TACTCAATTTGCTAATATGTCATGGAATATTCTTGATTTTGTAGCAATTTTCCATATGA
AAATATTCCATTTGCTGTAACCTTATATGATTTTATATTTTATATTTTACCT
TATATTACCATAGAGAGCTAATGATTCATATATTTGATCGAATAATTAATTTAT
CTTAATTTTAATTCCTCAGCTATTTTTAACTTACTGAAGGAAGCAGATATCACA
TCTGCAAAATTTAATATTAAACGGTTTTGGAGATGGAATTAACACCCCTATTACCACCTC
TTGGGATATAAGACTTGGGATTCATTTATGGTCTTATCTCAATCCTTATCTGATTTAATC
TATATGTGGATTAACAATAAGAAATAAATGAAATTTACTGTTAATTAAGCTATCTCAAGCT
CGCATAGCTTTTATAGCGTAATTGCAAGAGATTAACAAATAGCAAAATACAAATAA
CAATATCTGCTTTGATGACGCTCTGATGACAACTTATTAATTAAGTAATGATCT
TCGGAATATACGCAACACGGAATAATTAACCTATAGTATTCAACAACGAAATTTGGTA
TATATTCTTCTGCTGCTGATGGAATACAAATATAAACAACAACAGAGGCGATGGC
TCAAGCAAAATTTTACCAACTAAATAAAACTGGTTAAATGATGCTCTAATCTAG
AATGCTAAAACTCTACTGTTTTACAGCATGAATGAATTAATTAAGGATTATGGAAC
GAGAGGCTTGGCGAATCTAATGAATATGATGATTTACACCAAGTAAGATAGCAAAC
TTTTTTGGGATCTCGATACATACAGCAATGATTAAGAGAGATCTAGGTTTTATATAT
TCTTTAGTTCTGTATGATGCAAAACCTTGGAAAGGGCGGAAGATATATTGGACGGGG
ATAAGTAATGGCGAGGTTACTGCAAAATGCTATACCAAGGTTTTCTCCCTTATCT
GAAAGAAATGGGACCAATTTCCGAAATTTGAAGATTTGGCTGCTGAATTTCCCTGAATGGG
CAAGAGAGTGTTGAJAATAGCTCTCAACCGTTGAGGCAATATAAGCTTTACGATCCCG
TCGCGCTAGATTTGAGCGCGGACGATATAGAACCGTTGCAACCAAAAGGCTTTTCAGGCA
GCTTATTTGATCACCACCAACCGCATCGCGACGCCACGGGCTGGATTTGCTGATATG
ACGGTTTTCTGCTGCGCAAAATTAACAGTACGCGGGCAATTTATGACGACAGATACCA
TATTCACATCTTTGCTGATAGTGGCTGATCATCAACAGATCATATTCCGACGACGAG
CATGATGCTATGCTGTAATAATTAAGAAATATGTAAGCTTATATGATGATATTGGA
TGATGATGATACATAGTACAAATATAAGAAGTTGGGGCTAGTAGGATTTTATTAT
CGTATAGCAAAATCATCTAATAAATTTTTCTTCGTATGTTGTTTATATATAATTACA
ATTATCAATTTAATACCTTTGCGTTTTAATTTATTTATACCAATTTGCGAGTATAT
ATATGTTTATATTTTTTAGGGAAACATAGCATACATTACGACAGAGCGAGAAAAA
AATTTTTTAATTCATTTTTCCACTTAGAATCTTAATGATAATAGGTTCTGAGAAAGA
GGTTAGGATCGGTAGTTTTATTTGCTAACCTACTATGATATTTTGGTGTCTATGA
TCTATAGAGATGATACCTATACCTTACCTCTTATATGCTTATGATATGATATGAT
TATGATTTTATTTATAGTGATTTTGTATTATTAAGTAATTTATGTTTATTTTAAT
TAAGAGAGGCTTATATGGTTAATCAATCAAACTGATATAATTCAGTTCTTATGAA
TTTTATAGATTTTATTAACGCAAGTAGGATGATAATATCTGAGTACGAAATTT
CGTAAAAATTTTATACAAATGCTCACTGATTTCCAAATATGCGCGCAACATGAA
AGTTTAGGAAATCGGTAACGTGAATTAACAAACCAAAAGCTGAGTTGAGCAAGTT
GTAGAAAATTCGAGATAATATATATAATTAAGACGAGATGACAGAAATATCT
TGTTTAGGCAATGAGGAGCAATTTCTGCAAAATATGTAAGCAAGATCTTGATAC
AGCAACATTTGGCTTACCAAGCGAGCTACCAAAAAGAGCGGCAACGCGCAAGCA
GCGATTTGCTGTTGGCTGCTGACAACTGCAACAGCGGCTTACGCGCAAAATGCTATCC
ATTAGCCATGTTGGGGAACACGATTTCCCGCTTTGTTTAAGCTCTCAAAACAAATA
ACCAATAGTCATATCATTTTAAATAAATAAAGATTTTAACTATTTTGCACAAAT
TTTAGAATAGAGCTAGATTTTAGTTAAGTAGAAATGATAGTCTTCAAGGGAAGTAT
TCTCTATGTTGCAATTAAGGGGGCTGATAAGGCTATATTCTACTATGACATTTTA
TTCCTATTTTATGAGGAGGAAATTTGAGTGGGCTTTGATTTTTCTGCTCTTATTAAT
TAAGCAATAATATATGATGAGATTTCTGATATGGAATTTTATATGATGCTGAT
TACAAAAAATATTAATAATATCTGCTATGATGCTGACGCTGAGTTTGTGA
CTATTTTTATATGGCATATAGCGGAGACCTGTTGCTGACACTTCTCTTGGTA

Appendix A

-321-

AAACAAAAGATCTATTGAACTCAACAGAAAATGGTAAACCTTATGCAATATCGTTAG
 GAACATAATTTTATCATTTATGATCCAAACAGGGGGAGGGTGGATTGATGAAGTTAA
 ACTATCCATATAATATATCGGTTAAATATTTAAAGTGGAGAAGATGTAATAAACTTA
 TTATAGATTGATGGCTACAGAGAGAAATAGGAAGCGGAGGTATTTGGAGCTG
 CGGGAAAATACAGATGCATATTTATGATTTTATTTGCCGGRAGGGGAATTTATTTG
 AGTTTTCTGATTAATAGTGATATATTCACCTTACGATCAAAATAATATTTATTAAGAA
 TATAGTTTAATGACGAAATTCGATTAATTTCTCTAGAAATCTGGGGTACTTTGGCTGA
 TTATATCGGATCACTGATTTAAATTTTCCGAAGCAGGATAGCCACTGAACACAGAGGGGGT
 GTATCCAGACGGGGTACGTTTGGGTTGAACGTGATTTGGCTAGAGATTAATAAAATCGGG
 CTGTACTAGATTAGCCCTAAATTCACACCATTCCCGAGGATTTAAGCTGTTGAGACG
 GTGTGCCGAAGTTAAATCGAAATTCGATCTTTCAAGAACAGCGGGAAGATTACGAT
 CGATTCCGTTGTATTTTCGCAAGCGCGTTTGCTGATTCAAAATTTCAATCGCT
 CAGTTGGTTCTGACGGTCTGCAAAATTCCTGGAAATGGTTGATCGGATATGATTAACAC
 GCTGCACCTCCATTTGTCGACGCTGCTAGCATCTGATTAACATCTGTCGGCTGA
 TGAATTTCTTTTGTAGACAGGAGTAACTTCAGACTGGCATTTATCTAGCAGACGG
 TATAGCCCGCTCGGTGCGTTTCAGATGCCGAAGACACCACTTTTCTGCGCGACCGC
 GACACAGCTGCTGCTTTACCGCGTCCCGCAATCGCTTTCGTCGGCTCGACAGGGCCCT
 CAAAACCTCATCGGACGCAAGCCAAATGATGGTGAATACCGCTCGGATTTTACGGT
 AGACAGTACTGCCGAATTCGGATGGATACCCAAAATATCGGGCGAGAACGGCGTAA
 CTTCCAGACAAAAAACGGAGCAGTTCTTCTGACTTTTCTTTTAATTTGACGTGG
 TATGTTCAATTTTCAGGGTAACATATCTGTTATCTAGTAAACGCCCAAAJATATAGC
 AAAACACAGCAATTTGTAAGATAGTATAGGCTTTGTAAGGATCAATTTGTAAAA
 AAGCAGTTTTTAAACGAATGAACCGCTTCGGCGTGAATATATCTGATGCCCTGTCC
 TTCCCGTATATCTGTGTGTGTGTCAAAGTCAGCGCTGTTGAAATCGTATGCCATCT
 ATGAACCCACACTTTCTTTTATTCTAGCGGGCTGAGATGTGTAAGAATATGTTTTG
 AATAAATTTAAJAAATGATAATCGTTATTGACGTTTTTAAAGGAAGCGTACGCTGCC
 AATCTTATAGGAACATCGGTAAGTAACTAACAATGAATACTACTGCTGGTATAGACA
 TATTTCCACACCCGCACTATTTCTCGGAACACAGAGAAATTTCTCTTCTCTGTG
 GATTAATATTTATTTGATGTAGATTTATTTATACCTAGTATGTGAAGT
 TTAGTAATATTTTAACTAAGAGCTTAGTATCTACCAATATATCTTTAACTAAT
 TCTAGGCTTGAATATGAGACCATATGCTACTACTATTTATCAACTTTTATTTGTT
 ATTGGCAGCTTTTATCTATGACCTCATGTGAACTGTGAATGAAAGACAGATCAAAAA
 CGAGTAACTGGCAGACGGCTAAAGACAAACCACTTTCAACAAATCCGAGCCAAATGACA
 GGATTTGAACATACGTTACATTTGATTTTCAGGGACCAAAATGGTATGCCCTATGCGC
 TATCTTCCGGCTATGCGACAGCAATGCCACAAATGGCTTTCCGACAGCCAGGGCAG
 GATGTTTCTGCTATGAGAGATAGATGAGCTTTGCTGAJAAJAAACCGCACAGCG
 TCGGCTGCTGAACTATCAACACGAAJAAACAGCCACTTATCAANTTTACCGCAC
 CGTTTGGATAGCGTGGACGATATTGTTATCCGAAJAAAGTCGTGTGTTTAAGCACACT
 ATCGGAGAAGATGCTTACTTACGGGGTAAJAAATGCCATCTGCTATCTGATATAC
 GAGGCTTATGAAGATAAAGACATATTCGTAAATCCATATTTTCATGAATTTACTAT
 ATTTAAJAAAGAGAAATCCGGCATTTACTCATCGCACTATCATAGTATGGACAG
 AACGATTACGACACTAGCGTAGGTTCTGATTTTAAACGGTTTACGGTAGCGGTTTACCGC
 TTTATTCGGGAJAAAGCAGGCACTACACAGCAGGCTTGGTGGTTATCACACACAGTA
 GACCAATTCGTACAGATTTTGTAAACCTACAGTAAJAAJAAATGGGCTGCTCAGA
 TAACTAGGATAAATCGATTTTACTAATGTTTAAATGGACAGAACTTTATCTCA
 CTGTTGTAAJAGCCATTCGCATCTCTTAAATAGACTCAAAATGGCTTTGGGAATG
 CGGTTAAACTTCGCTAAATGACGTTTTGCTGGTTCCAAAGTTCTCAATTCATTAATA
 TGGTTTTCTGCTCAGCAAAATGCTGCTGTGATGATAGCAAAACGAGTTTACGCGAA
 GCTAAATGGCTAAATTCGCGACATCTAATACATCATAGCTACGATACAATCCGATATA
 AATAATGCTGTCAGGTTTCTCTGTTCCAGGATATAGGAATTAAGTAGGTTTGGATG
 ATTGGATCTGTACCGTATTAACCTCTACATTTCTGCTTAAAGACAGATAGGCGGCT
 TTACCGGACAGCACCGCGACCGCGTTTGCCTTGGCTGTCCGCCAAATTACTTCTATC
 TGCTTCTACTTCCGCTACAACATTCCAATCGGCACTGTTTGTGAATAAGTAACTG
 TAAACGATGAATAATAGGCTCGGATTTTATTACGGCTACTCAACTCTGCTGCCGT
 TCTTGCACTTACACTGTGACAAATAGCTCAATGACTTATTTGTTTATCTAGCTGGCTAG
 AGCATCTTTTCTATAGGATAATCTTAACTTAATTTGAATTTCCCTAGTTATCTAGGAC
 AGCTCCCTATCTTTAACTAATTTTAAGCTGAATATGAGACCATATGCTACTACCGT
 TTATCAACTTTTATGAGATATCATCTGCTATGATACAGGCTTTTATGAGTAAAGCTG
 TAATGAACAAACAGCTTTCAACATTCGCGCACTAGCAAGTATGAACATAGCGTTAC
 ATTTGATTTTACGGGACCAAAATGOTTAATCCCTATGGCTATCTGCAAGGTATACGCA
 AGCAATGCCCAAAATGGCTTTCCGACACCGCAGGCGAGGATGCTTACTCATTAATTT
 GATAGAGATTAGCGTATTACAJAAJAAACCGCAAGCTGGTCTCGAACCATACAA
 CCAACGAGACAAGGACACTTTATTCATTTCTACGCGGATGTTTGGATAGCGTGGACGA
 TATTTGTTATCCGAJAAAGTGGTGTAGTTTAAGCGACACTATGGGAAGAGATTGCTTAC
 TTAGCGGTTAAJAAATATCATCTGCTATGATACAGGCTTTTATGAGTAAAGCTGCTG
 ACAATCTCTGAAATCTCAATTTTCACTAATTTTACTATTTAAJAAAGCAAAATCC
 GCGGATTTACTCATGGAATATCGACTAAACACGGCTGAAGAAATATTAAGCAC
 TAGCTAGGTTCTGTTAATTAACGTTTACCGCTACATTTACCGTTTTATTCGGGAAAA
 CGACGAGCTCACACAGCAGGATGTTAGGTTATCACCAAGTAGAGCAATTTGTATCA
 GAGTTTTGTAAACAACTCAAGTAAJAAATATTTAAAGGATCTTATTAATGAAGGGGTG
 AAGTTGTTTAAACACGAGCAAAATCCAACTCTGCTGGTTATGCTGCCGTGGGATTA
 CTATGCGGTTAAJAAATATCATCTGCTATGATACAGGCTTTTATGAGTAAAGCTGCTG
 CAATTTGCGTGAATGCGCAAACTTAAAGGTTTGAATGCGGAJAAATGGTGG
 AAAACCTATGGGATGATACGCTCGTAAJAAACCGCTTTAGACAAATTTGATCGGGT
 CACTCAACATTTACGCAATATGCGCGTCTAATTAATCAAAATTAAGTATGATTAACCA

Appendix A

-322-

ATACTAGTGAATAGAGGAAGTTACTATAAAGCGGTTACCGATAATGGGGTTTCTTCCA
 GTGCAGCTATTGATTGATTATTAATCGTTCACCTTCGGGATATGGCGGATGGTTATTTGGG
 CATTAGGTTTGGGGATAGAAGCCGAACGTATCCACATAGAGCAAGCAATAAATAATCCGA
 ACGGTAGCGAAAGGGATAATAAGAACGAGTTAATATCTGCTTTAGATAAAGGATTTGATG
 GATCTTTTAAAGAGAAGCATTTTACTTTTTTACAATCTGTGATGATGGATGAACAAAGT
 TAGTGTTGAATATACAAATAGATGGTTGGCAAAAATTTGGAGTTTGGGGTAATGGGATTA
 TCATGATTTATATAAAAGTTGTGAARAAGAGAGTGGAATTTTGAAGTGGTTA
 ATATAACATCTACAGAGGAATACGACTTTTAAATATGAATCAATAGCTGTGGTCTGATG
 ATATGAAGAGCTGCTGGCAAGGAATTTGGAGATGACTTAATAACACAGTGGAAATATCTCA
 CTCAGGCTGGCGAAATATCTATATATGACATAGTAGACAATACTAGTCAGGAATAGAAA
 AAGGTGCTCAAGCCATTAAAGAAATGTCTGAAAATAAGAAAATGTCTGCTCCGATTTTGG
 CTGACGGTTCAGCAGAGAAGGCTTAACCAAGTAGTGAAGATTTGGCTCAAGCGCGCAAG
 AAGCATACGAAATGCGCAATTCAGCCAGCGGAGAGGCTGCTCAGGACGCTCGAAGATTTT
 TAGGGGCTTGGCCGATTTTAAAGATCTGGCGAAAATTTAGAGATCTTGTTCGCAAAATC
 CGAAAGCGTAGCTGATGATGCTGACCAATGTTTACGCTCTGGGTAAAGAAATCAAA
 AACGCAATGGCAAAATCATGCTACGACCCCTTGGCTTAGACTAGATGGCGACGGTA
 TAGAAACGCTGCCACCAGAGGCTTTGACGGCAGCTTATTGTATCAGACAACACGGTA
 TCGCACCCGCCACGGTTGGTTTCTGCGGATGACGGTTTACTCGTCGCGGATTGGAACG
 GCACGGCATCATCGACAACGCTGCGGAACCTCTTGGCGCAACACCACAACTGGCAGAGC
 GTTCTTTTGCATAACACGGCTACGCGGCTTTGGCGGAATTTGGATTCAACGGCGCAACA
 TCTATCAGCGGACAGCGCGGCTTCAAAACCTTCGCTGATATGGCAGGATCTCAATCAGG
 AGCGCATTTCCGACGCTAATGAATGCTGCTTCCAGGAATTTGGGTTATCTCCATTTG
 ATCTCGCTATAAAGATTAAATAAAATCTCGGTACGGTANCACTTTGGCTCAGCAAG
 GCAGCTATACCAAAACAGACGGTACAAACCGCAAAATGGGGATTACTTTTACAGCGCG
 ACAATCTGCACAGCCGCTTCAAGAGCAAGGTGGAATCACTGCGCAACAGCGCAAAAGCG
 CCAATCTTGGCGGATTTGGCGCTCTGCGGATTTTGGCGAAGCTGCGCATTTGTCGCGG
 ATTTGGCCAATCTGCAAAATGTTTCTGCGCGGAACAAAGAACACAGTTGGGCAT
 GTTGTAGATAATTGATTCACAAATGGCGGGAACCGATTCTGAATCTGGGCAAAAATTTG
 AATGCGCTTTTACCGCAATAGAGGCTTCTGAGAAATCTGCACTGACACCAT
 CCAATGATGACCACTAAAAAAGAACGCTTTAATTTCCCTTCTGATAAAGCTAAAGCAG
 CTATTGAGCGCGCCCGGACCGGATTGCGCGTGTGATGCTACACGGGCGAGGATCCCA
 ACACACTCTATTACATGAGCGAGGAGATGGCTTTAATATCTGCAAGGTAAACACGATA
 CATACGACCATCTCGCAAAACATCTACCAAAACCTGTTTCCAAACCGTTTGCAGC
 CATATTGATAAATCAGTTCTCAAATGGGAAATGATACGTTCACTTTGGATTTTAGTG
 GTCTTTGTCAGCATTTACCATGTGCAAAAGAACTAATCCGAAAAAGATTTTGGGATTT
 TGGCGGAGATGCTGCTATGCGGAGCTCTGGTTCTTGGTGTGAGGCGCAAGGATCAATG
 CGGATATTGTGGGAGCGCAAAAAGCAAGCTTTTGAAGATCTCAAGAAATTTGG
 CTCAGAGACCGTTGCATTATAGCTAAACATCGGTCACGAAAGCATGATATCTCTG
 AAAATGTAGGTTTGGTCATAATAAAAAATGTTCTTTATATGGTAATGACGGCAACGACA
 CTCTAATCGCGCGCGCGGTAATGACTATTGGAGGCGCGACGGCTTCGGATCTTATG
 TCTTCGCGCAAGGCTTCGGTCAGGATACGGTCTATAATACGACTACGCTACCGGACGCA
 AAGACATATCGCGTTTACCGACGGTATTACAGCGGATATGCTGACTTTTACCGAGAGG
 GCACCATCTCTTATTAAGCGAAAGACGGCGATGGACAGTGAATGTCAGTCTGATTT
 TCGAGAGCATGCTCAGGCTTACGGTATCGATGATGATGACAGTATCTACATGGCA
 ATGGCAATGATACGCTCGATGGAAGAGGAAGCAACGACGCCCTGTACGGCTATAATGGTA
 ACGATGCACCTGAATGGTGGCGAAGCGAATGATCTTGAAGCGGCAAGACGGTAACGACA
 CTGTGATGCGGGTGGCGGTATATGATTACTTGGAGGCGGGCAGCGGTCGGATCTATTG
 TCTTCGCGAAGGCTTACGAGATGATGATATTAATGACGATGATGACGACGCA
 AAGACATCATCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
 GCAACCATCTCTTATCAAGGCAAAAGACGGCGATGGACAGTGAATGTCAGTACTATT
 TCCAGACATGAGGCTCAGGAGCTTACGCTATCAGCAGATCTATTGCTGATACGCGCAAG
 TACTGGATGTTCGCACTGTCAAGAACTGGTACAGCAATCCACGACGGTTCCGACAGAT
 TGTATGCTACCAATCCGGAATACCTTAAATGGCGGATTTGGCGATGACTCTGTAGC
 GTGCGACGGGATGACCTGCTGAATGGTATGACGCGCAACGACATCTACATGGCA
 ATGGCAATGATACGCTCGATGGAAGAGGAAGCAACGACGCCCTGTACGGCTATAATGGTA
 ACGATGCACCTGAATGGTGGCGAAGCGAATGATCTTGAAGCGGCAAGACGGTAACGACA
 CTGTGATGCGGGTGGCGGTATATGATTACTTGGAGGCGGGCAGCGGTCGGATCTATTG
 TCTTCGCGAAGGCTTACGAGATGATGATATTAATGACGATGATGACGACGCA
 AAGACATCATCGCTTTACCGACGGTATTACAGCGGATATGCTGACTTTTACCGAGAGG
 GCAACCATCTCTTATCAAGGCAAAAGACGGCGATGGACAGTGAATGTCAGTACTATT
 TCCAGACATGAGGCTCAGGAGCTTACGCTATCAGCAGATCTATTGCTGATACGCGCAAG
 TACTGGATGTTCGCACTGTCAAGAACTGGTACAGCAATCCACGACGGTTCCGACAGAT
 TGTATGCTACCAATCCGGAATACCTTAAATGGCGGATTTGGCGATGACTCTGTAGC
 GTGCGGACGGGATGACCTGCTGAATGGTATGACGCGCAACGACATCTACATGGCA
 ATGGCAATGATACGCTCGATGGAAGAGGAAGCAACGACGCCCTGTACGGCTATAATGGTA
 ACGATGCACCTGAATGGTGGCGAAGCGAATGATCTTGAAGCGGCAAGAGTGCACGACAT
 CTCTAATCGCGCTTACCGACGGTATTACAGCGGATATGCTGACTTTTACCGAGAGG
 GCAACCATCTCTTATCAAGGCAAAAGACGGCGATGGACAGTGAATGTCAGTACTATT
 TCCAGACATGAGGCTCAGGAGCTTACGCTATCAGCAGATCTATTGCTGATACGCGCAAG
 TACTGGATGTTCGCACTGTCAAGAACTGGTACAGCAATCCACGACGGTTCCGACAGAT
 TGTATGCTACCAATCCGGAATACCTTAAATGGCGGATTTGGCGATGACTCTGTAGC
 GTGCGGACGGGATGACCTGCTGAATGGTATGACGCGCAACGACATCTACATGGCA
 ATGGCAATGATACGCTCGATGGAAGAGGAAGCAACGACGCCCTGTACGGCTATAATGGTA
 ACGATGCACCTGAATGGTGGCGAAGCGAATGATCTTGAAGCGGCAAGAGTGCACGACAT
 CTCTAATCGCGCTTACCGACGGTATTACAGCGGATATGCTGACTTTTACCGAGAGG
 GCAACCATCTCTTATCAAGGCAAAAGACGGCGATGGACAGTGAATGTCAGTACTATT
 TCCAGACATGAGGCTCAGGAGCTTACGCTATCAGCAGATCTATTGCTGATACGCGCAAG
 TACTGGATGTTCGCACTGTCAAGAACTGGTACAGCAATCCACGACGGTTCCGACAGAT
 TGTATGCTACCAATCCGGAATACCTTAAATGGCGGATTTGGCGATGACTCTGTAGC
 GTGCGGACGGGATGACCTGCTGAATGGTATGACGCGCAACGACATCTACATGGCA
 ATGGCAATGATACGCTCGATGGAAGAGGAAGCAACGACGCCCTGTACGGCTATAATGGTA
 ACGATGCACCTGAATGGTGGCGAAGCGAATGATCTTGAAGCGGCAAGAGTGCACGACAT
 CTCTAATCGCGCTTACCGACGGTATTACAGCGGATATGCTGACTTTTACCGAGAGG
 GCAACCATCTCTTATCAAGGCAAAAGACGGCGATGGACAGTGAATGTCAGTACTATT
 TCCAGACATGAGGCTCAGGAGCTTACGCTATCAGCAGATCTATTGCTGATACGCGCAAG
 TACTGGATGTTCGCACTGTCAAGAACTGGTACAGCAATCCACGACGGTTCCGACAGAT
 TGTATGCTACCAATCCGGAATACCTTAAATGGCGGATTTGGCGATGACTCTGTAGC

Appendix A

-323-

TGTATGCTACCAATCCGGAAGTACCTTAATAGGCGATTGGCGGATGACATCTGTACG
 GTGCCGACGGGGATGACCTGCTGAATGGTGATGCAGGCAACGACAGTATCTACAGTGGCA
 ATGGCAATGATACGCTGATGGAGGAGAGGCAACGACGCCCTGTACGGCTATAATGGTA
 ACGATGCACTGAATGGTGGCGAAGGCAATGATCACTTTGAACGGCGAAGCGGTAAACACA
 CTCTGATCGGGCTGTCAGGCAATGATTACTTGGAGGGCGGACGGGTTCGGATACTTATG
 TCTTCGGCGAAGGCTTCGGTCAGGATACGGTCATATAATACCACTGGGATAAAACCTCTG
 ACATATGCACTTTAAAGAGATTTTAAAGCAGCAAGTGTCATTTTATTCGTTCGGGAAGTG
 ATTTGGTGGTGAATGCTGCTGAACAGAGCAAGTACGATTTCCGGATTTTGTATAGGTS
 AAAACCATCGTGTAGATACATTTGTCTTTGATGATGCAGCTATCACTAATCCAGATTTTG
 CCAAGATATATTAATGCTGGCAATAATTTGGTACAGTCTATGTCTGTGTTCCGTTCTAATA
 CTGCTGGCAGAGGAGGAATGTGGATGCCAATATACATACCTCGTACAGCAGCGGTTATTGG
 TAACGCCATTCGATAAGGAGCCTAATCACAATTATGGCTTAACTGAAAACAGCAATC
 AAGTTTATTTTGGATTGCTGTTTTCCTAATATTGGGATTAAGGTCGTATTTTAATTAACTC
 TAAATCGGTGCACTCTAGCAATATAGTGGATTGACAAAACCACTACAGCGGTTGGCTTCG
 CCTTACCTACTATCTACTACTTCTGGGCTTTGTCGCTTGCTGCTGATTTCTGTAACT
 CACTATAATTAATGACTTTTGGCGCGCTTTGCCAATTCGGTAAATAAAACGATGGGGAAG
 TGTGATATAAACGCTGTGTGTAACATATACAGACGGCATTTTTCCTGTTTGACGGGCTC
 AATCCAAAATTTTGCAGCACTTTTCGCCACGCTCTTTCGACAACTCTTCTCGCGCCGGAA
 TCGCTGCAATGCTTTGTTACCAAGTTTTCGGGTGCGGCTCGAGCTTGTTCAGAGGT
 TGAACGCTCGCACTTAAAGCGGCGGCGACCTCGGGGTTGAAGCGGTGCTGATTTCGATGACTT
 TGTGGGGATGAAGCGGTAGCGCTGCGCTCTCTCGGTGGAAATGGGGAGCTTGGGGAGT
 TGACCTGCCGATGCTGAACGGGCTTGTGGGGTTTGCGGCGTAATTTGGATCTC
 CGAAGCGCTTGAACCTGTTGCGAGGTGTCGCTGCGGCGCTTGAGCGACGAGGAGCA
 AATATTTGCTCATCACGAGCGGCTGCTGTGAATAATTTGTCGGCAACTGCGCAGCGCG
 GGTTCGGCGTATCGCTTTCGTCGGCTTGAACGGCGAGCAGGATGCCCATTCGTGGGTCA
 TGTTTTGCGCCATTTCCGCGTATTTTTCGGCAACGGTTTCGATGTGCGGGGGTTCGCGC
 CAGGACAAAGCGCGCGCGAGCTGTGCGCAGCTGCGCGCAGCGCGGCTTCGGGGCTGT
 ATCTGATCGCTTTGGTTTCTGCTTTCGCGCGCTGACGGTCAATTTGTCGCTTTTCGGCA
 GAAGTGGAGGGCAGAGCTGCGCTGATTAACAGAGCTGCTGATAGCGAGGCTTTCGGT
 CGATTTTCGCGCGCTTCGACAGCTCGGCTCGGATGGCAGCCCAAGCAGGGCTT
 TGAAGCGCTTGTCTAAGAGTGTGCTGAATGACTTTTTCGACGGGGCAGCAGTTT
 CGTGTTCGCGAGCTCAAGCGCGCTTGAAGCGGTGGCAAGTTTGGCGGCGAGCGCGCG
 GGTAGAGCGTTTGGCGGCTTCCGACGCGGTGAAGCGTCTGCTGTATGGCGGAGCAGGA
 CGCAGAGTGTGCTGCTGCTTACGGATAGTTGAGATGACCGCGCGCTGAACCGCGCA
 CGACGAGGGAAGCAGCGCTTCGGTATGCGCTTGCAGCAGGAGGCTGTTCGGCTTCGG
 TCAGCAGCAACAGCGCTTCGCTGCGCGCTTTCGCTGATAGTGCAGATGCCACGCTTCGG
 CGTTCGGCTTTCAGGAGCACTTTCAGGGGATTCGCGGCTTTCGCTTTCGCTTTCGCT
 CGGCGCTGGCGGCGAGCGTTTGTGTCAGGCTCAACTGAAATATTTGTTTGAAGACAG
 CTTTCGCTTCCAAAACGGGCGCTCCCGGCTGCTGACCAAGCGGACTGCTGCGAGAT
 TGTATCGGCTTCGCGCTCGCCATCGCGCGCGGAAATGTCGCGAGGTAAAGCGGCTTCGCT
 CGTGGCTGTGAAATAGAGCTTCATGCTTTTCGGAAGCCCTCTTCGCGGAGCAGGCTGT
 GATACATCGCACTACTTCGCGGCTTTTTCATAAACGCTCATGGTGTAGAAATGTTCA
 TCTCTCATAGAGTGGCGGGGCGCAGCGGATGGCGGCTGGGCGTTCGCTTCGGGGAAT
 GTCTGCGGCAAGCGGAGATTTTCATAGCGGCGCAGCGGCTTCGCGGCTTCGCG
 CGGAAATCTTTGGTTCGGGAACAGGCTAGCCCTTCCTTCAGGAGGCTGGAACAGT
 CGCGCGAGGTAGCGGCTTGCCTCCAGTTTGTGAATATCTGCTGCGGAGCAGGAT
 CGATGCTTCGAAATCGGTATGCGGCGGCTGCGGCTGTCGGCAAGGAGCAACTTGGTGT
 TAAAGATGTTCAACCTCTGTTTTCATCGCGGCCATATTGAAATCGCCACCGGCGAGCA
 CCATGAATAATCCAGTGTATTTCAAAACGAAGCGGTTTCGTCCCATTTTCATCGCT
 TTTTCAGCGATTCCAGGGGAAGCGGCACTTGGGCTGTCGCGCTTCGGTGGTFAAAATC
 CGATTTCGAGCTTTCGCGCTCATGTGGTGAAGATGCTTTCGCTTACGCGCATGCG
 CGCGGCAAGGAGCAAGATAGTCCGCTTTCGGAAGGCTTCGCACTACGCCAATCC
 GCGCGGCTTCGAAATCGCGCGGCTCGATTTTGTTCGCTGTGAAGCAAAACGGGAT
 AGCGTTTTTTCGCGGACGATGTTGGTGGTGAATTCGACATCATCTCGGACGGTCTGA
 TGTAAATATGTATTTTCGGAAGGCCCTCGGCTCGCATGGTAAACAAATTCGCGGGG
 AAGCATACAGCCCATCAGCGATTTGTTTCGCGCGGAGGATTTGGTTCCTCATCTGGA
 CGGTGAAGCGGCTGCGAGGCGACGCGCAATCTGTCAGCGTCTCTCTTCACACATATAT
 CGCGCGCGCGCGCTTGGTTTCGAGGCAAGGATTCGCGTGAACGCTTCACACACAGG
 CTTCTCTACGCTCAAGCTGCGGCTTTCGGAAGGCTTCGCACTACGCCAATTCGCT
 TAAATCAAAATGTAAATCGATTTTGAAGATATGATAGCGGCGCTTGTATAGTCTTTGA
 GATAATGACGGTTTTGCTCATTTTTCCTTCAATGTATTTTGTGTTGACGGAAGG
 CTTACAGCGGACGGGCGCATCGCGGCTATGCGCTTGAAGCGGACGGCGGACGGGCG
 GCGCGCGGACAAACCGGTTTGAATCAATCTTTATCCACGCGGAGCAAACTCTTCC
 CAATCGGCGCTTTCCCGGGCTTTCGCGGACGAGATATCCGATATCCGTTTGCATTT
 TCGATTTCGTCGGCATCAGGCTGCGCTGACGACGACGAGCAAGACGAGGTACATCAGATAA
 GTGTTTTCGCGGACGATATATGCGGCTTTCGCGGCTGCGGCTATGAGAT
 GCTTCCAAACCTTCTGTCGCGCTCAATCCAGCTTTCGCGGAAACCGACAGTTTTCGCG
 ATATCGTCCAGCGGACGCTTTGCGCTCGGCTGTTGAAGCGGAGCAAACTCATCAATCG
 CAGTGGCGTTGTGTATACCGCTGTATGTATTTGTCACCTTGAATCGGCGCTGCGCGG
 AAATCGCGCTCGCCATATCCCAATAGCGCGCGGCTGTATGCGCTATATCAGGAGCGG
 TAATGCAATACGCGGAGCTGAAGACGCGCGCTTCCCACTGACCGGTTGCGGCTATGT
 TTTTCAATCAATTCGAAATATTAGCAATGACCACTCTTCTCGGCTCATCATCTCGCG
 ATGTGCGGCACTATCTGCGCGGCAAGGCTTTCGCGGCTGCGGCTATGAGAT
 TGATGAGATGATGCTGATATAATTCGCGCGCTTCGAGCAGCGGCTTTTCGCTGGCA
 AACGACCACTTCATGCTCGCGGACGAGGACGGGAGCTCTGCAATGTTTCGATACCC

-324-

[illegible]

Appendix A

-325-

GCGCAAGACTTCATGAACGGCCCGGAACCGTCGAAGTCGCGCGCAAAACACCAAC
 GCCAACCTCGAGCAGCAGCATCATGCGCGTCGATACCATTCAGAAAGCGCAACCTGCTCGAA
 CGGCTGATTGTCGATTTGCATATGAACAGGTCATCGTGTTCGCAAAACCAACAAAGC
 GTCGACCGCGTAAACGGCGAAGCTGTGTCGCGCGCAACCTGTCGCGCAGAGCGATACAGCGC
 GACCGTCTCCCAACAAAGCGCGCTCGAAACACTCAAGCGCTTCAAAAGACGGCAACCTGCGC
 GTCTGCTGTCGCGCAGCAGCATCGCGCGCGCGCGGTGACATTCGCGCAACTGCCCTTCGTC
 ATCAATTAACGAATGCGCGCGCAGAGCTAGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CGCGCGCGCGCGCGCGCGCTGGCGATTTCCCTGATGAGCAAGTCCGAAACAGAAATGTTT
 GAATCCATTAAAGAGCTGACGCGGCAACAGCTGCTCATGAGCGCATCGAGGCGTTCGAG
 CGCAATGTTGGAAACAGGGCGCGCAAAACCGGAAACCGCAAAATCGCGCAACCGGAG
 CAACCGCAACCGCTCAGAAATCGCGCAAGCGCAACCGCAAAACCAACCGCGCGGAAAT
 CGCGCAACGATGCGCGCGCGCGCTTCGGGAAAAATTCGCGGACGCGCGCGCGCGCGCGCG
 CGGAGAACCGCGAGCTGGCGCTGCTCAACCGCGTTCAGCGGTAAATAGCGCTTAAAA
 TCAATGTCGCTGATGACGCTTCCTCGCTTCAGCGGCTTTTCAACGAGCTGCGCAT
 CGGAGCAACCGCGCGCGCATGATAAATTTCTCGCGCAACAGCTTCAGACGCGATTTCG
 CGCTGTACAATATAGTGATTACAAAAATTAGGACAAAGCGCGCGAGCGCGAGACAGTA
 CAAATAGTACGGAAACGATTCACTTGTGCTTCAGCACTTAGAGAATCGTCTCTTTGA
 GCTAAGGCGAGGCAACGCGCTACGCTTAAATTTAATCATTAAATAGTGTATTTAAAT
 ACGTCTGATATACAGCATACCTACGAGGCTGAAGCTTTAGTTCCACATTTAAATGACC
 TCTTTAAACCTGCTTCGCGAGGTTTTTTTAGTGTGTTGGAAATCGTGTGAGACA
 AGCTGTAAATAGTACGCTTAAATATTCGCTTTAGCGCCATATATTACAA
 GCGAAATTTTAAACATATTCCTGATATACAGCGCGTAAACATATACGAAACT
 CTTTAAATTTCCGAAATTTAAATATGAGCACTGAAACCCAAATATCCCTATTAACGA
 TTTACACCCCTCGCGCAAAACAGGATATTGAAGCAAAACCATCTGAAACGTTGTAT
 AGCGCGCGCTGCTCCTTTCGCGCTTTAAAGCAGCGCGCAAGTTGATACGGAATCAAGC
 CATGCTGATTAAACCTCTCTGTTTGAAGACGCGGTCAAGTTTCGAAATGAAACAT
 CGTACACACACGGAACAAGCTGTTTCAATCCCTGCAATGATACGAGCGGCAAGCGC
 TCGCAGGAAGAAGCGCTGCAATAGCGCGCTGTTAGCGGTACCGCAAGCGAGCGT
 GAGCGCGCTTTTAAACGCAAAACCGCATGCTGTCAACGCGCATATACGAAACT
 CGAAATGGCATTCGCAAAACAGCGCGCAACCGCTTAAAGGAGGCAACAGCGAAATGT
 TGTCTATACCCCGCGGAGGAGAGAAACCATACGCGGCAAGTTCGCAATTTGGAGCG
 GTTTATTCAGAAAGCGCGCATTTAGACCGCTTATCATCATGGCGCGCGCATATTACA
 ATTTGAAGCTCATCGCTTTACGAGCGCAACCGCGCGCGCATATTGAACAG
 CCGCTGATTGATGAAAGAGGGCTTTGGATTTGCTATTTTGTATTTAGCGCGCTACAT
 CATGAAACAGGGGCGATTACGCGCTGCTTTTACGCGTACCGCAAGCGAGCGT
 GAAAGCTGATATATGCTGTAGAGCGCTTACGCGCGCGCGCGCGCGCGCGCGCGCGCG
 GAAATAGATGCGATACCGCGCTGTGCGAGCAGCAGCGCAACATACGAGCAGCG
 ACAAGGAATCTACACGCAAGCATGTAATCTTCTGTTGAGCAGCATATACAGCAT
 TGCAACCTAGAGCGCGGAGGATGCCAAACGGCAGCGCGCTTAAGTACTGTAAGAA
 GCTTTCAGACATAGGTGTGTCGAAGAACTGCTCATCGCAGGCAAACTATTCTCA
 TCCGCGCTAATGCACTATTGCGGGGAGGCGCAACGCTTTACCTCATTTCAATCCCT
 CTTTAAAGCATGCAAAATATCAATATTCGCGAGGTCAATTTGGCAAGAGGTCAAA
 ACATTTGAAGAGCTGCTGAGGTTGAGGAAGCTTTGCGTATCTGCGATTAAATGTC
 GTCGATTTGAGGTACGCAACGCGCTGTATCACTGCTTCAATATGCGGCGCGCGCGCG
 ACGTCTTGAGGTACTCCAATATGTTACGAAAGTACGCGGTTGCCCTCTTGTGT
 AATGAGCAAGCTCGAAAGCGGTATAGCGACCTTAGGAAGATCATATGCTTAGAA
 ATGCTGAACAGGCTGTAAAGGTATGACCAAGCAAGCGCATCACAGCGAAGCTAC
 AATGATGATACCAATCCGTGGCAGGTTCAACAGCATAGTCTTAACGATGTCGAAGC
 GATACGACATCAACCAACCTCATAGCAGCATGCGCAACACAGGATGCGGATGCGA
 GACTGTGATAGGCTGACAGCGCTCTTGTGTCAGACTCAGCGCGCGCGCGCGCGCGCG
 CGCGTACAGCGCAACGCGCGGTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CAGTACAGCTTTCGCGTTCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 GACTTGTGCTGCTGCGAGCGCGGTATGTGCGCTGCGGCAAGACATCGCGCTGATTGAA
 CTGTCGCAACAGCGGCTGCTGCTGCGCACCTTGTTCGATGATTTCGCGGAGGATGCTG
 ATTTATCAGACGCGCGCGCTGTGAAGCTTTCGACCTGCCCGAGGCGAGCATTTTA
 GGTGTGCTGCGAGTCAAAACCGTTTATGTCGCGCGCAACGCAAGAGCGGTGTTG
 ATTGCGATTACCGCGCTGATGTGCGAGCTGTTGTTGATTTCGCTTCCAAAGCGTGC
 TGTACGCGCGCGCGCGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 ACGCTGGGATACGCAAAACCGCTTCGTGCGCAATTCGAACACGCGTGACTCGTTGT
 CGGAATGGGTCGCTGATTGGAACCGAATAAATCGCTACCGCATCAAAATGCGGTCT
 GAATCCAATCGGTTACAGCGCATTTGCCATTTCAACTGTTTATGATTACTCGGGCG
 CATCTGCGGAAACGAATCACATCGCGGATGTTTGGCAATCGGTACGAGCATTAACAA
 CGCGTGATACCATGTCGCAACCGCGGCTGCGCGCAACCGCAATTCATCGCGCGGAT
 GATGTGCGCATGATGTCATAGGCTGCTGCTGCGCGCGCGCTTTTTCGACCATTTGCG
 TTTCAAGCGGTGCTGCTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CGCGCGCAACAGCAAAATGGAACGCTTGTGCGCAACTGTTTGTGATATCGCAAGCG
 CGCCACCGGTGAATCTGACCGGGTATGACAGATGAGGTGCGATTCCACAGCTTCC
 CTCGCGCAACCTTCAACAGCGCGGATTCAGGCTGCGGATGCGCGGGAACCGCGCGAG
 GCTTTCGCGCTGTTGACGATTTCTTTTTCAGCAATTCCGATCGTCACTGCTGCTC
 GGTGTAGTCGCGATTGTATTTTGTGCGCTTCGAAATGCTCAGGCGTTCAACCGGCT
 TTCGAAATCGACTTCTTTGCGCTGTGAAGTATGTTTTCGCGTGGCGTTTACGCTGCGGA
 GTGCTGCGCATGATGCTTCTCGCATTCGATCATGCTCACTGAGTACCGCGGTGCGCGT
 GTGGAATTCGATGATGCGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 GCTGCGCTGATTTCGAAACCGCGCTCAACACCGCAACACGCGCTTTCGAAATACAG
 CTCAGGCGCATACGCAAGTAAAGCGGAATATCAAGGCTTCTGATGTTGAAGAGG

Appendix A

-326-

TTTTGGCGCTGCGCGCGCGGAATCGGGTGCATCATCGGGGTTTCGACTTCGAGATAATG
 CTCGCCACCATAAATTAACGACGGATTGGATGATTTCGGCTGCGTTTGATAAAGGATT
 GCGGGATCTTCATTGGCAATCAATCAATAGCGTTGGCGGATTTGGTTTCCTGATC
 GCTCAAACTTTGTGTTTGTGCGGCAGCGGGCTTAGGGATTGGACAGCGGGGATGCC
 GGACACGGCTAGCTCAGTTCGCGTGGTTGGTTGGTAACAAAGTGCGTTCGCGGCGAC
 GATGTCGCGCAATCCCAATGGTCAGTGCGTCCAAACTCTTGCGTACCGGCTTGGTT
 GTTCAGATAAGACGATATGCGCGGACAGCTGTGAAGTGTGCGCAAACTTCGCTTGGC
 CATTTCAGCGCTTCAGCATGCTGGCGCGCACTTTGACGSGAATGCGTTCGCGATCGAG
 TTCTCTTTTGGCGATTTCGCGCTATTGGGCGTGCAAATCGCGGCGAGCTGTGCGGTT
 GAAGTCGTTGGGATAGCGGTTGCGCTGTGGCGGATGTGTGCGATTTTTCGCGGCGCAG
 GCGCATGATTGGTTTTTCGCTCAACTCGCGCTCGGTTTGGGGATGTTTTGTTGCGCTCAT
 AAGGTTTTTCGGAATAAATAACGCGCAATCTGTTTCAGACAGCTCAACGGAATCA
 AATTTGCGCATATTTAGCGAGTGTGGCATTTTTTCATAAAGCGCAAGTGGCGGT
 TGAAGCGSHTTGGTTTCAGACGATCTTATCTTTCATCAATCTGCGCAATCA
 ATAGAACAATAAGCGTAAGCGGTGAGATAAATCAAGCTGCAATGCAAGGCAATCA
 TACCTGATGTGAGTTTGTGTTTTTCATCACCTTTAACCAACGGAATTAACGCGAGGAA
 ACACAGGGGCGGACATAAAGCGGCAATCATCGCAATTTGAGCAGATTGCCATTACGC
 CGTCAAAACGAAATCACCGCGAAACCGCTGCCCGCCACCAAAATATTCAGGCAAAAG
 ATTGCGGCTTGC CGGTTTTGCTTTTCGCGGCGACAGGCGCACGGTTTCGGCAATGGCAC
 GGGCATAGCGCTCCACGAGGTAATCGTGTGCGGTACATACGGCAAGCGGATAAAGG
 CACACAGCGGGCGGACAGCGCGGCAATCATCGCAATTTGAGCAGATTGCCATTACGC
 TATATTGCGCGCGCATCTGCACTTTTCGCGGTGCGGTATTGCAACAAAGCGGCCA
 GTGCAAGGAAACGCAAGGCAAAACGCGCACTGGCGATATAACGCGCTTGAATCAAAAG
 TCGGCTGCGGGTATTGGAAGGATTGATGCGTTGTTTTGCGTTACCAACAAGGAATTGA
 TGGCGAAATTTCAATCGCGCGGGCATCCAGCCCATACGCGGATCAGGAAGCCCAAC
 CGGCAAGCTGCAAGGTTGCGCTCGATAAAATCGGACTGCATTCGATCGCGCGGAC
 TAGCGATGCGCGCGGCGGCAAGCTGGCGGATCTCAAAAGTAACGATGATTGTTGAAG
 CGGATCCAAAGCGGCGGATGCGCTGCGCATCAAAATATCAGGACGATGCTATATCA
 AAGCGGACGCGGCGGATGCGCTGCGCTTTCGCGGTGCGGTATTGCAACAAAGCGGCC
 CGGTTCAATGCGCGCGCGCGCGCTTAATCTGGGCGAGAGGATGCACAAAATCAGGA
 ATACCCACAATAAAGCGCGCTTTCTCGGCATAACCTTCAATAGGCTTTGCGCGGTG
 CCAGCGGTGTAATGCGCGCTGAAGCGGAAACGGGTATTGAAGAGGTTGGTCAGGATGA
 TGATGAGCGGATGTCGCAAGCTGAAGCGCGCGCGCTGCGTTCGAGGCAATCAGGTGCG
 AACCGCGGACGCGCGCGGCAAGCGCATGATGCGCGGACCAATGGTTGATTTTACITTT
 TCCAGGTGCAAAATGTTGTTGGGACATAGGCTTCGCTATTTTTAACTGTGTTTCAAC
 ACACAGCGCGGCGGACGCGGACGCGCATCTATGTCGCTATTGGCGGGATGGCG
 CCGAANGAAGCAAACTTCACTGCTCTCAAAAGACGATACCGCGGTGAGGAATTT
 TGATGAACACGATTTGTAAGCTAATCAAAATACCTGCCAACACACATATTAGACCT
 CATGCTCAAACTTGACTATATTTTCCATATTACTTCAAAAAAGCGATAAACGACATT
 TTAAGCTCAAAATTTACACAAACACCTTACATCGTTTTTCGCGAAACGACGACC
 ATCGCATCGCGCTCGTTTTGCGAGGCTGGCGATTTGATAAGATGTTATGTTTTT
 CAGACGGCATTTGAGTTTTCGCTTCCATGCGATCTGAAGCGCGCAACCGGATTGAGAGAA
 CTGTTATGAATACGATATGAAATATCTGTGTCGATTAAGCAGGCTATGAAGCGGAG
 GTTGTGATGCACTGCTCATCTTTCGCGGACCGCCACTGTGCGAATACCTGCGCGAG
 ATTGCGAGCGCGCGCGGAATTATCGGGCTTTACGGCTGCGTTCGCGACTTTGCTCTGA
 CCACCGATGAAGCGGGCGTGTGGTGGACAGCGGCTATTGGGAACGAGCGCGCAACAGC
 TTGCGGGCAGCGGCTTGTGCTGCAAAAGCGGGCAAGTGGCGCGTACAAAGANTGGC
 TCGCGGCAAGCTTGCGGAAACGCGCGCGTTCGCGATCCTTCGATATTGCTGTGCTCA
 CGGCAACCGCACTTTGGGCGAATCATCGCGCGCAAAACATCCGATCGAACACCGGG
 ATATTTACTGATCAAGTGTGGAACAAACCGCGCGCTTCGCGCGCAAGCGGTTTCA
 TCGACGACCGCGGATGTTTGAACCGCGGAAACGCGGCGCGGCGCGCGCGCGCG
 TGATGCGCGCAAAAGCGCGGATACCACTTGTTTTCGCTGCTGACGACATTCGCTGCG
 TGACCACTTTCGCGGCGGCGAGCTGCTTCAATCCGCTTTGCTGCTCTTCTGCTGTA
 TTGCAAGACACAGCGCTCTGCTTTACCGACCGATGCGCTGACAGCGGAAGCGCGCG
 CGCGCTCGAAACCGCGGCAATCGCGTGAACCTTACGCGCAAGTTGCTGCAAACTCG
 CGCAATCGCGGCGGCTGCTGCTCATCGAGCGGCAAAACCGCGCTCAGCAGCTTGTGCG
 GCTTCGCGCAAGGCTGGCGTTATCGAGGAAATCAACCCATCAACGCTTTCAATCTC
 CGAATTCGAGAGCTGATGCTTGAACCGCGGCAAGCTGATTCGCAACGAGCGGCGGCT
 TGTGCGTTTTCTTCGCGAGTTTGAAGACATCATCGGCAACGCGCGAGCTGACCGAAG
 TCGAGTGGACACCATGCTTTATCGCCACGCGAGCGTGGCGCGAGCTTCATTTCATTGA
 GTTTCGACACATCGCAGCTTCAACGCCAACGGGCACTGCGGCTATCAGCGCGGACAC
 CGGAAGCGACAGCACCATCAGCGGCAACGGGCTTTGCTCATCGACTTCGCGCGCGAAT
 ACAGAAGCGGCGACGCGACATCACCGCGCTGCTGCGCGTGGCAACGCGGAGTGGGAAC
 ABAAGGCGACACACCTCGTTTCTCAAGGCAATATCGGCTTTGGCGAGCGGCTTTC
 CGAAGACCTGATGATGAGGATTCGCGCAACGAGCTGCGAGCGGCGGAGCGGCG
 AATGCGATCAGGCGCAACGCGACGCGGACGCTTAGGCTATTCTCAAGCTCGACGAG
 GCGCGCGAGCTGCGCTTCGCGCGCGCGCGCAACGCGCGAAGCGCATGAAAAAGGCA
 TGGTTACTCCTGCAACCGGACTTACCGCGCGGGAAGTGGGCGATTGCGATTGAAG
 AGCTTGGCGCAACCAAGCGCTGCGCGCGCTCAAGAAACGAANTTCGCGAGCTTCCTCT
 GTTTTGAAGCGTGAACCTCTGCGCCATCGACACCGCGCTGATGGACACGCGCTCATGA
 CGGACGCGGAAATGACTGGGTCAACGCTACCGCGGCAAGTGGCGCGCGCGCTCGAGC
 CGTGGACGAGCGGCGGCAAGCGGCTGATTTTCGCAACGACGACGAGCGGCGGCGGT
 ABAACGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 ACATCCCGCACCGTTTTATCTTGGCGCAAGCAATATAGTGGATTACAAAAATCAGGA
 CAGGCGGAGGAGCGGACAGACTACAAATAGTACGGAACGATTACTTGTGCTTCAG

Appendix A

-327-

CACCTTAGAGAAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCGTACTGGTTTTTGT
ATCCGCTATATTCCGCCATCTCTAAGATTTACAGCGGTACACGGGTGATTTAAGGAATGC
CCGAACCGCTCATTCCCGCCACTTTTCGCTATTCCACGAAGTGGGAATCTAGAAAATAAA
AAGCAGCAGGAATTTATCGGAAATAACTGAACCGCAACGAGCTAGATTCCCGCTCGGTG
GGAATGACAATTCGAGACTTTTGCATTAACATAGGTACTAAAAATTTATGCTCAATCTC
ATTTTCAAAATGACAAATTTTCTGATTTTCCCTACTTTTGGCTCAATATTAGGAAGGTT
TTAGGCAATTAAGAAATTTTTCGCGCAATTTTATGCGCAAAATTTTCGTACAGACTTT
TTTGCAAAGGCTCTCACTATATGTGCAACCAAGCAAAATGCGAAATACCGCTCGAAAA
TCCTTCAGACGGTATTTCGTCTCTTTATTCGCGCTTTTTCCTCCGTATCCGGATTTTGT
TGGGCGCTGAAGCAGATTGGCAGTCTGATTTGCAATCAAGGAATGAAGCGAGCGGTCAAAA
ACAAAGCTATCCGCTTCCCGCCCGCATATTTAGAAATTTGTGGCGCAACCGCAGCGAGGC
GGCATTAATTTGAGTGTATGTGCGGATGCGGGATTCGGTTTCAGCGCAAGCGCCAGACAC
GATGGCGGAATGCGTTTGGAAAAATCATTAATCAACGCGCGGAGTATTTGATGTAGCT
GGTATTTTCGCGCTTTTACCGCTCTGATAAAGCTGAACGCGCAACGCGTGTGAGCGG
TGGAACTGCAATACCGGAGGCACTGAGAGCAGTGGCGGCAATTCGCGTGTACTGTTT
GGTTTGTGCGCCATTTTCAGACAAATCCAATCGAGCGCGCAAGCGGAGATTCAAGCGCGC
TTCCCTATAGCGCGCGCTGAGACGGTGTACTGATGGTTTTTCAAGGGAATCGGTACCTTT
GGCTTGATCACTCCCGCTGCCGATCAAGCAACACTCAAAAGCATTTACGTCGACATTGGC
GTGCTCGCATATTTAAAGGCAATGTTCCCGCGCAACCGCCATTTTGTAAATTCAGACC
GGCATATACACATCCGATCCGGGCTTGGCGACACGCGGAGCAGGATGAGTATTT
GTTGTATTTCTAGTATAAAGCGGCGTTTACGGCGACTTTTGTGGTTCGAGAC
GAATTAACCGCTGCGCTGAACCGGCAAAATTCGGGGGATGTAGCGTACGGAAACCGG
CATGTCGTGCTGGGCTTTGAAAAATCCCAATTCGGAAGCCACATCATTTGCTGTCCCA
AGGATCAATGGCTTGGCTGGCATGTCAAACTGATTGCAACGCGGACGCGCGCAGCGT
ACCGAATTCGCTGCGCAAGCCGATAAAGGATTCCTGTTGCCCACTGGGTGCGCGCGCC
GCGCGCAAGCGATACGTTCTGCTCAAGCTGCCAAGCGCTTCAGCGCGTCCGCCAAATC
CTCATCCCTTTAAGCGGATTAAGCAGCGCAAAATCACTGATTTTTCGCTCTGCTCGGCT
TTTGGCGCTTAGACTTTCTGATTAATTAATTTTCTGAGCGCGCTCCAGCTTAGCGGCTTG
TGCCTCACTAAATGCGGCTGATTTCTGCTGCTTTCGCTGCTGCTGCTGATTTGCGCTG
TAGGCTGACATCCGCAACGCGCGCAAGCGGCACTGGACAAATACGAGGCGGTAAAGTTT
TTTTGCGATATCGGCTTCCTTTGTAAATTTGATAAAACCTAAAAACATCGGCAAAACA
CCCGATACGCTTCAATTAATACCCCGCCCCCGCAAAAGCAATTTTCAGAACAAATAT
CTGATAAATCGCGCAACCTTTATTTAAAAATGATTATTTTGATATAAAACATAGCT
TATTTTCTCAAAACGTTGTGTTCTTACACACAATTCAGCGCGAGACCTCGTGCGAGCC
GATGCGCTGCTCGCGGATGCGCTGCGGCTTTTAAACGCGCATAAAAACACACAGCG
GCATTTATAGCAACAGTGCATGCGGCTTTTAAACGCGCATAAAAACACACAGCG
ACGATCTCTTAAGGTGCTGAAGCACAAGTGAATGCTTCCGTACTATCTGTACTGCTG
CGGCTCGTGCCTTGTCTGATTTTGTAAATCGGCTATAAGACCATCGGCTATCTAC
AGCGCTCATTCGCGCGAGCGGGAATCTAGAATTTCAATGCTCAAGAAATTTATCGGAA
AAACCAAAACCTTCCGCGCTCATTTCCACGAAGTGGGAATCTAGAATGAAGACGAG
CAGGAATTTATCGGAATGACCGAACTGAACGCACTGATTCCCGCTCGCGGGGAATG
ACGGGAATTTAGGTTTCTGATTTTGGTTTTCTGTTTTTGAAGGAATGACGGGATGTAGGT
CTTTAGGAATGATGTGCGAGGTTTCGCTACGATGATTCGCTCATTCGCGGACGGCG
GGAATCTAGAATTTCAATGCTCAAGATTTATCGGAATAAAGCAAAACCTTTCGCGCT
CATTCGCCAAGATGGAATCTAGAATGAAGACGAGGATTTATCGGAACGACCC
GAACTGAACGAGCTGATTCCCGCTGCGCGGGAATGACGGGATTTTAGGTTTCTGATT
TTGGTTTCTGTTTTTGAAGGAATGACGGGATGTAGGTTTTCTTAACCTGCGCTCTAGAT
TCCCACTTTCGTGTAATGACGGGATGTGGGTTCTGCGGAATGACGTGGTCAAGTTTCC
GTGCGGATGGAATGCTCATTCGCGCGAGCGGGGAATCTAGACCTTAGAACACAGCAAT
ATTCAAGATTAATCTGAAGATCCGAGATTTAGATTTCCGCTTTCGCGGGAATGACGAA
ATGCTGCGGAATGATGCTGAGTTGCTAGGTTACTGTCAGCGCTTCTGTATGTGGA
TTTGGGAACATTAATGATGCTATTCGCGCGAGCGGGAATCTGGAATTTCAATGCTC
ARGAATTTATCGGAAAAACCAAAACCTTCCGCGCTCATTCGCCAAGATGGGAATCT
AGAATGAAGACACAGGAATTTATCGGAATGACGGAATGAACGAGCTGGATTCCCG
GCTTTTCGCGGATGACGGGATTTAGGTTTCTGATTTTGGTTTCTGTTTTTGAAGGAA
TGAAGGATGTAGGTTTTCTTAACCTGCGCTCTAGATTCCCGCTTTTTCGGAATGAGG
GATGTGGGTTCTGGGAATGAGCTGCGGAGGTTTCCGTGCGGATGATTTGCTATTTC
CGCGAGCGGGAATGAGCTGAGGATGAGGATGAGGATTAACGAATATCTAGGATGAGG
CGAGATTTGGATTTCCGCTTCCGCGGAATGACGAAGTGTGGAATGAGGATGAGGCTCAG
TGTCTACGCTTACTGTCAGGTTTTCGTTATGTTGGAATTTCCGGAATATTAATGATGCTC
ATTTCCGCGCGAGCGGGAATCTGGAATTTCAATGCTCAAGAAATTTATCGGAAAAACCA
AAACCTTTCGCGCTCATTTCCACGAAGATGGGAATCTAGAAATGAAGACGAGCAAT
TTATCGGAATGACCGGAATTAAGCGGACTGGAATCCCGCTGCGCGGGAATGACGAAT
TTAGGTTTCTGATTTTGGTTTTCTGTTTTTGAAGGAATGACGGGATGAGGATTTCTTAA
CCGTGCTCTTAATGCTTTTTCGGAATGAGGATGAGGCGAGGCTGCTGTTATAGG
GATGAACAAAAACGATCAACGGGTTTGTCTCCCTTGTGCTCAAAGACAGATTTCTAG
GTGCTGAAGCACCAGTGAATCGGTTTCTGATCATCTGTACTGCTTTCGCGTTCTGCGCC
TTGCTGCTGATTTTATTAATCCACTATAATTTCTGCGGTGTGCGGGTATCGAATCA
AGCGGAATCAATATATCGGACTTCGATAATGTCGTTATCGCGACAGCGCCGCGCGGCTT
GGACTTCGCGGATATCCCGCTTCTCTGCGGATTAAGGCGGCGGCGATGGGTGAGCCGA
CATAGATTTTCGCTGTTGATATCGGCTTCGCTTTCGCGCAATTTGATAGATAAGCT
CTGCTCGCTTCTGAATGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT
GATGAATTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT
TGCGCCCTGATAAAGCTTGGGCTTCTTGGCGGCTGCTGATTCGGGCTTTCGGACA
AATGCGCTGCGGAAGGCTTTCGGCATCTGCTGATCACTTCGCGACGCGCCAGCTTT

Appendix A

-328-

TGAGCTGCTGCAATTCCTGTTTTCAGCAATTCGCGACGGGTACGGTCAGGGGGATTTTT
 GCATCGGCTCTTTTTCCTCCATATTCGCGCACACGGTGTGCGGCAGCAGCATACCGGCT
 ACCGCTCTTTGTTTGCTGCTCCGATATTAATAATAAATAACAAGCCGCCGGAAATCGG
 CGGCTGTGCTGTCTGTGAACACCGGCTATTCTACCAATTCATGAATTGCGCAATCGTG
 CGCGCGCCGCGCGCAACCGCGCATGTGTCGCAACAAAGCTGAAATATGCCGACAAGAA
 ATTTTGAACAAAAAATTTAAAAATATCAATTTTCGGATAAAAACACATTTTACGG
 ACTTTAAACCGCTGATGATGACGCTGAGATTTTCATACAGACATTTGCACAGATATG
 GAGGCTCTTTTATTTAAATATATTAATATTCGACCTTTTCCATGACAGCAATTCGCGCTC
 CCGCTGCGCGCTCTCAAACTCTCAACGTGCGCGCTGCCGGCTCCAAAGCATCAGCAAC
 CGCACTCTGCTGCTGCGCGCTTGTCCGACAATGCTTGCGAAATCAATTCCTGCTCAAA
 TCCGACGATACCGACGCTATGCTCGAAGCATCGATTAACCTGCGCTCAAAATCGAATAT
 CTTGCGGAAGACCGTCTGAAAGTGCACGGCACGGCGACGCTTCCCAACCGCACTGCC
 GATTTGTTTGTGGCAACGCGGGCACGGCTTCCGCGCTTAACCGCGCGCTTGTGCGGCTT
 TTGGGCGGCTATCATCATCTGCACGGCTGCTCGTATGACGAACGCTCTATCGCGGAT
 TTGCTGATGCTTGGCGATTCGCGCGCGGCGATGCGAATATCTCGCGAAGCACTAT
 CGCGCGCTCTCATATCGCGAAGCGCAAGCAACGGCGAGCGCTGATTCGATTAAGCG
 AATGTGTCCAGCGAGTTCTGACGCGCTTTTAAATGGCTTGCGCTGACCGGGCAGGCG
 TTTGAAATCCGTATGCTGCGCAATGATTTCAAGCGCTATATCGACATTACTTTAAAA
 CTGATGGCGCAATTCGGCTACAGGTTATCAATGAAGGCTACCGCTCTCAAAATTCGC
 CGCGCTGCGCACTACCGACCGCGGCAACTTGCACGTGGAAGGGATGCTCCGACGGG
 TCTACTTCTCGCAGCGGCTTTGATTTGCGCGACGCGCTCGCGCTTACCGTATCGCG
 GCAACACATACAGCGCGATGCTGCGCTTTCGCGCGAGCTGCGAATACTGGGCGGCG
 GTGCTTTCGGCGCAAACTTCGTGGAATTTACGCGCGAAGGAACTGCGCGCAATTC
 TTTGATTTGGATGCGAACAATATCCCGATGCGCGCATGACCTCGCATCTGTCGCGCTT
 GCTACAGGCGCAACTGCAAGCTGTCGCAACATCGGTTGCTGCGCGCTCAAGAAACCGAC
 CGCATCGCGCAATGCGAAGCGAGTTGCGCAACTCGGGCAAAAGTGTGCGAAGCGC
 GAAGCAATTCACATCACTCCCGCGAAGACCTGACACCGCGACCGCTCATGCAACGTCAC
 GACGACCGACCTAGCGGATGTGCTTTCGCTGGTTTTCGCTTGGGCGTACCGCTGATCT
 ATCAAGATCATCGCTGCGCAACAAGCTGCGGCTTTCGCGGCTTCTCATCTGCTCATCG
 CTGACGCAACACGCGAATAAGCGCGCATTTTTCGCGGATTCGCGCGCGCGCGCGCGCG
 GGCTCATCTGTAATAAAAGTATGTCGCGGAGGTAGTTTGGCGTAAGACGCTGTGGGA
 GAGTTTTCGCTTTGATGCTTTGCGCGCTGCTGGGCGCATGGATGAATTCGCCCTTGCC
 GATGTAGATCCGACGTGTGATGAGCGGTGTGCGCGCGCGGTGTGAAGATACGAGGTC
 GCGCGCTCTGAGCGGCTGTGCGGATTTTGGCGCTTTCGCGCGCATGCTGCGGCGCGGT
 GCGCGGAGCTGTGAGTTTGAGGCGGTTTGTGAACGAATTAATCATCGCGCTGCAATC
 GAAGCGGTTGCGGCTGCTGCGCGCAATTTGAGGCGGTGCGCGGATGAGTGCAGCTGAGCT
 GTGAGCATGAGTGTGCGGAGCTGTGCTGCGGCTGATGTGATGTCGCGCGCTTGG
 GATTTGCCGACATGCTGCTTTGGGTTTCGGTTTCGCGGTGTTGCGCGAGCTGTGCGCGCA
 TGAGGCGAGGAGCATGCGCTGAGCAGAGGAAAGGGTTTTCGCGGGGAAACATGCT
 TTTTCTTTCGCGGCTCGGATATCGCTCTGAAGGTGTTTCAGACGCTATAGTGGATTAAAC
 AAAAATCAGGCAAGCGCAGGACGAGCGCAGACGATACAAACAGTACGAACCGGATCACT
 TGTGCTCTCAGCACTTAGAATCGTCTCTTTGAGCTAAGCGAGGACAGCTGCTACT
 GGTTTTGTATACGCTATATTTCTATAATAAACCCTCTATGGGACAGAGGATAGAT
 TTTTGGCGCTGCTGCTCAAAAGTTTGGTTTCGGTTGCTGCGGTTTTCGGG
 GCGGGATCTGCCATTGCAAGCGCTTGTGCTGTCGAGGATACCGGTAGGCTAGCG
 GGGTGTGCTACGCAAGGCTGCGCTCATCTGTTCCGATTTTGGGCTTTCGATAAC
 AACGCCCAATTCGGTGTGAGACGCGCGAAGCGGGGTGAGGTTGAACGAACCGATGAA
 GATGCGTTTGGCTCAACAATGAAGGTTTGGCTGCGAGGCTGTTACGGAGCTCGCGGT
 CAGGCTTGTCTTTTGTGCGGGGACGCGATGTTGGTTGCAAGCTGTAGATTGAT
 GCGGCTTTGAGCAGCGTTTTCGATTTGATATAGCGAATGACGAGAGCGCGCAACGCT
 GTCGCTGCGAGCTGCTGCAAGACGATACGCTGCTGCGGCTGATGCTGCGAGGATG
 CAGTGGCTGCTGTCGCGGATTTGTGGAAGCAAAATAGGCGAACAAGATGACGCTTTT
 TTCGGGCTGTTGAGCGGCTGTTGACGCGCGCGCAATGCGCGGTTTGGCGCGGTGCGG
 GTCGAGTCTTTTGAGGCTGCTGCTGATGAGGCGGGTTCGAGGCTTCGAGCTGAT
 GCATCTGCTGTATTTTGTAGAGGGGCGACTGTTGACGCTTTCGCGGTAGCGGAC
 GAGCGGCTGTGCAAGCTTCTGCTGTTATCGAGTGTGAAGACCTTTCGCGATGTC
 CGCGCTGCGGATGTCGCTGCGGTTGTGCGCGGATGCTTTCGCGAGTACGGCTGCGAA
 GTTGTGCGGCTGCTGAGGCTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 GCGGCTGTCGCGGTAAGGATTTGTTGTGCTGCGCGGTTGAGCGCGGCGGAGTGTGCT
 CAGGTACCGGAGTGCAGCGCAATTTTCGAAGACGAAGGGGTGAACAGCGCACTTCGAT
 ATTGGATGGCTGTGAGGGCAAGCAGGAGGCTGCTCAATCGCGCTGTTGTGTCGCT
 CAACGCAAGCGCTACGCGACACCGCTCTCTGCGCAAGTACACAGGTTGACAGCAG
 CCGCGCGAATTCGCTGCGCGCAGATGATGATGCAAAATGAGCGCTGTGTCGCGAGA
 TCTGTAAGGCGCGCGCGCGCGCAAGGCTTCTGCGGAGCTGTTCAACAGCATAGATATC
 GTGTAGCGCTGCTGTAAGGCTGCGCGGCTGCGGCTATGCTGCGCGAGATGTGCGG
 TTTGAGATGTAAGTACGCGCTTCTGCTGCTTCTCAAGTGGGCGAACCATGAAGA
 ACATGAACAGAGAAGAGCATAAAGGGAATTAAGCTGCTGCTTTTTCATCAGGATAT
 GGTTCAGACGCAATGCTGCTGTTTGGGCTTGGCGCGCATGGAAGTGGGTATCATAA
 TCCAAAGCTTGAACGGGTAAAGTTTTCGCTGTGAGCGCTTCAGGACGCTGTGTCGCT
 GTGCAAGTTGCTGCGCTGTGAAGCGCTTGCAGCGTTTGAACACGAGCATGATGCAAGG
 GATGCGCGCGATGCTGAGGCTGATACCGAGGCTGACGAGCTGAGAGCGCGG
 TATCAGAAATGCTGAGCTTGAAGATTAAGAGGATGAGGATGAGGATGCTGAGGATG
 AAGCTGTTGGTTGACGCGCATAGCTGCTGCGCTGCTGTTTGTGCGGCGCAATC
 GCGAGGCTGCTGTTTTCATGCGAAGAACTGAGGAGTTGACGCGCGCTGCGCAG

Appendix A

-329-

CGAGGGAAGAACCCAAATCCACAGCGCGAGCTTTCCGTGAGGCGAGGCGGCGAGCATGAT
 GAAGCGCGGAAGCAGCTTTGGTGTCCAAAGCAGTACCGTGGCTAGCGAAACGCTTTCAT
 GAGCGGTGCAATTAGCGGTTTGACCACGCGGAAGACAGGCGGACGGCGTGGACACGCCA
 ACCCGCAGGGCTTGCGCGGAAGCGGAAGCGATTGGAACATCAGGSGCATCAGAAAAGG
 AATCGAGCTGATGCGGACAGCGCTGAACAGATTGCCCGCAGTCCCAAGCGAAGTGGCG
 TATCAGAAACAGGTGCGCGGAATTAATCGGT TTGACGCGGTTTTCATATGTCGAAJATA
 ACGGCGTGCARAACAGCATGCGCGGCACAGCGGCAACAGTGCMAAATACGGAGGACGGC
 GTGCGACAGGCTTTTTCGCGAAAGTACACAGAGGACAGCGCGGCGCGAAGAAATCAGATA
 ACGTTTGAAAGTGTCAAGAGATATATCTGCTTTATTTATGCGGCAATGATTTGGTGGTCA
 TATGAAATCCGACAGACCGATGGCGAGTTTGACGAGAAATCCAGTGCACAGACCGTA
 TTCGACCAATATACCGCCGCGCAAGGCCCTAAAACGCGGCCGATTATATGCGGCAATAC
 CGCATTAATGTATGCGATTGAGCAGCTTGGAGCTGTCTACACACGCAAGATGCTCAGACG
 CGGTATCGGAACAGCATCGAACCGCGCATGCCCTGAAGCAGACCGGGAAGCGTCAATTTC
 ARAACGCGAACCAGCATGCGCGGCACAAATCGCGATCCGAGCATAAAACGGCATCGAACCC
 GARAAGACATTTTTCGTTCCGACACTGTCCGCGCAATTAACCGCTCAAGGAATCAGCAG
 GCGAACCTCAGCGTGTACGAAATATGCTGCGATGTCATATCCAGAGCGGCTCATTCAG
 TCGCGCGCAATTTCAGCGAGTGGGTATTAAATATGCTGCATCCACATTCGATATAA
 AATGCCAATTGCCAGCAGAAGCGCGACCAAGGGGATGCTGCGCGGCGGATAGGGGTGT
 TTTTTCATAGGCGGATGTACCCCATCTTGTGGCGTATTGTTTTCAGATGCTGCTGT
 AATCGCGTCAGATCGGCATCTTGATGTTCAACAGCAACAGACCGGCATTCATGCTGA
 ATGATAATTATTCGMAAACATCAGATTAAAGTACAGTAAGCGTTATGGGGGCGAGTTT
 GTAAGAAAACCGGATATTTTTPAATATGACATTTGACCGCGCACAGCAATACTACTTAA
 AGTAAACGCTTACCTTTTTCGAGAAAGAGGCTTCCGCTATCAAAACAGATGAGCG
 CAGCATTTCCGCGCAAAATCATCGATACAGCAGCAATCCAGCGGATGTTCTTTTCG
 GCATCTGGCTCCCTGATCTTTTATGCGCCGAAGCAGCGATGATGCCATTACCTTAATG
 AGCAGCAGGCGATACGCTGTCATTTCCCGATGGCGCAAGCTGCTGCGCGCAGCTGGCT
 ATTCACTCGGCTCCGACCGACGAGGCTTTCGATGTCGCGCAAGCAACATCGACCTTTTC
 CTGAAACATGCGCGATCGTGGCTGCGGCTCGCGCTCGCGCGCGCATGTAACACCACT
 GCGCGAGCTGTTTAAAGCGCAGGATACGAGGAAGGGGCTGTGGATTGCGCGCGCGCA
 CATCGAGGTTTACCATTTTCTGCTGCGCATCGGTTTCAACCGCAGCAGAGGCAAC
 CGCTCAAGTGCAGGACACATCTCTCGCGCAATGCAAAATGATGCAATGCTTCAATCT
 CAGCTGGCAACTGATGACCGTATGCGAAACGTCGAACGCTCTCGTCAGACACAGAA
 GCGAATGTTGGCGTTTCGCGCGCACATTCTCGTCAAAACAGCGGATTTTCGCGGCA
 TGGTAACAGACAAAGTCGCGCGCTGAAAGAAACCGCGCAACCGGAATCATCAGCGCGG
 ACTGCGGCTGTATGATGAACATCGCGCGCAAAATGCGCAAGCAGCGCGGATATCGCG
 GTCGCAACATATCGATCCCTCTTGTGGAACGCAACCGGAGCAAGCATGAGCGCGG
 TGAATAATTTTGGCGATGAAAGAGGAGCGAGCATGCGGATGGAAGAACCTCGGTT
 TTTGATATTTACGCGGAGGCTTTTTCGCGGATTTTCGCGGACGAGTGTGAGCTGTGA
 TTGGCTGCGCTATGCTGCGGCTCAAAACGAAATTTATGGGTGCGAAAGCAATTG
 GATGCGAGTTTTCGCGAAGCGCAGAGGCAAGGCTTGAATAACATCTGCTGCCCTT
 GCGGACCGAACCGGCAATTTGCCCTGCGCGCATTTGGCGGACGACATATCGAACCGAT
 TGCTTCGAGGCGGAAATCGATCTTTGGAAACCGAGTTTTCAGAAACATCGATGCGGG
 CTTCAGCGCGCGCAATGCGCGATCGCCGCGACCGCAGCGCTGATGCTGTTTTCGAGCCC
 CGAAGAACCGCTACTTTAAGGCTGCTGTCGCGCGTGCATTCTGCGTGTGATAGCTC
 CAGAGTACACAGCTTTCTATATGCGCTCGAAGCGCAAACTGCTGGAACCGCTAT
 GCGGACAGTGTATCTTTTCGCGCGCTGCAAAACCGGACAGATCTCACTGAGGCT
 TGCTTACGCGCGCACGCGCGCGGCTGTTGTCATCTCGCCATCTCGCGGACACAT
 TTTCCCTCGCGATTGGAGAAACGCGATGACTACGCAACCATCAATTTACATGAAG
 CGGGAACCTTTCAGCAAAACGCGCAATTTCCCTTCAGACAGGCTTTGCGCAAAAGC
 CTGCGTACCGGATGATGATGATGACCAACGCAAGCGGT TTGACGCGACGAAGAA
 GAGCTGCAAAAGCTCGGCGATTGTGCGAACAGCTCGCTGAGGCTCATGTCTAAATG
 CAGCGCTGCTGAGCGGCTGGAGAAACCATGACTGATGTTGGCTGAGTGTGACCTGG
 CGAGAACCGCGGACAGGCTGCAATATGCTGACGATATGCGACGATCATCAGCGCAACCGG
 AAGCTGATGCTCAAGCGCAATCATGCTCAGCGAGGAATCGAGCTGACCATATCTTT
 GAAGCAAAAGGCTAAAGCGGTAGAAAGCAGCTTGGCGAGTTCATGTCGCAATGGCA
 GCGGAAACCGGACCATATCGTATGCTGCTATCACAAAACCAAGAACAGGTATAG
 GAATCTTCCACCAAACTCTCGTACCGCGCTGACAGAGCATGTAGACCACTGACCGCG
 TTTGCGCGTAAGACACTGCGCGATATTTACAGCACTGCGCATGTCGGTTTGAGTGGCGTA
 AACTTTGCGCTTGTGAAACAGTACGCTGTGCTGCTGGAAGAAAGAGGCAAGCTGGCT
 TGTGATACAGCGGCTGCGGATGCTGATTTACGAGTGTGAGTGTGAGTGTGAGTGTG
 AATGTTCCGACATCCACCTCTGTACAGCCTGCTGCGCGCTTCTGCAATGTGTCAGAAC
 ATTACCATTTTTCATATGATTACCGCGCGCGCGCGAGTGAAGAAATAGACGCTCG
 CAGGAATGCACTTGGTTCTGCTGACACAGCGCGCGAGCAGGCTTATGCGCGAAGACCA
 ATGCGCGGACCTTGAATGTTCGTTGCGCGCGGTGATGAACCATTGC CGGTTTAT
 ACCGCACTGCGGCGCGCGCATACGCGCAACACTATCCGCGTCCGATTGGCGAGATT
 TCCCGGACCTTTAGGCTTGGATGCCATCGCGACCTGCGCGCGCTGCGACGATTGTC
 GCGGCTGCTGCGGCTGCGGCTGCGGATGCTGATGCGCAAGTGTGAGTGTGAGTGTG
 CGCTTGAAGCGCAAGCTTCCGCGACCGCAACCGCGCGCGCACCTCATCGGCGGAGCG
 GCATCGCATACCTTCGCGCAACAAATGGGTTGGCGCACATTCACGGTATTTCACGCGG
 AGCAAAACCTACCGCGCTCTGCTTGGCGAGCCACCAAGTTCCGCAACCTACGCCCGCG
 AAACAGTTGGTTGCGCAAAACCGGCTGCCGATGAACCGGCGGAAGAAACCTGCGAC
 GAATCTAATGCGAGAAAAATGCGCCAAAGAAACAGGCATAAAAGTTTTCGCAAAAT
 GCGCTCTGAACCGGCAACAGGCGCTCAGACGGCATTTGTATGTGAGTATAACAAAATC
 AGGCAAGCGCAAGCGCGGACAGTACAAATGATCGGCAAGGCGAGTACCGGCT
 ACTGGTTTAAATTTAATCCACTATATATTCGACAGCGTGGGTTTAAATTTGCTCCAT

Appendix A

-330-

TCCATTATCAAAACGCGCTGTTCCGTGTTGGCTCGGAAGTCTGCCAGTTTTCGGCCAGT
 TCGGGGTTTCGTTGGCGAGCATGGAACGCGCAACATCTGCCGATTTCCGCGCGCTGCC
 TCGCGATGGCGAATGTGGCGACGGGTACGCGTTTGGGCAATTGTACATCATGATAAAGC
 GAATCTTCGCGCGCAGGTATTTGCTGGGACGGGTACGCCAAACCGGGACGGTGGCT
 TTGGCGGCAACCATACCGGGTAAATGCCGCGCGCGCCGCCACCGCGATGATGGCTTTG
 ATGCCGCGCGCGTGGCGGTTTCGGCGATTTGGACATCAAAATCGGGTGGCGGTGGCG
 GAACACCGCGCTCATATTTCTACGCCGATCTTCAGGAAGTCCGCTGCTGCCGG
 ATACCGGCGCAATGCGCTGCTGGCCATGATGCGGATTTGTATCAATAAATCTCTCT
 TGGTGCGATGGGGTAAACAGCGGAAATATGGAAATATCTGTTTGGCGACGGCTGGCGG
 CGGCGGCTTTTGGCGCGGGCTGCGGGATAGGCTCTGTACAGGCTGGCGCAAGTCGCC
 TTGCAATGCTCTTTTGGCTGAAGCTGTATTTGGCATTTCCGCGATTTTGAACATGGCTTCAG
 CGCGGGTTGGGCTGTCTTTGAAACGGTTGGCGTAACGCCCTCCGATTTGCATGACGGATT
 CGCAGTTTGGCATAGCGGCCCTGCTTTGCAGCAACGATACATCTCGTTTGGCGATTTGCGG
 TCGCGGCTCGGCTGATTTGATCTGCTTCAACAGGGAGCGAGCGTGAACATTTGCCGCG
 TTTTATAGGTTTGGATGCTGTGTTGTAGAGGTTTGTGCGGTTTGCAGAGTATGTCGCG
 ATGCGCTCGCGCTTCGCTATTGAGGTAACTGCTTTCAACTTTCGGGCTGTGAGATT
 GGAGCTATGCCCTGGCGGAAGATGTTTTCGCTTCCAGTCTTTGACTTTGCCGT
 TTAAGGTTTCCATTCGTTTCGACAGCGGAGGATTTTGCCTTCCAGATAGTCCAAAGCGT
 CTTCGAAGGTGGGAAGCGGATAGGGAATGCCGTCTGAAGCATTTTCCGCTGCACATTT
 CGGTTTGGCTGCTCGCGGACGGGTGAACGGAAGCAGGAGGCGGACACAGCAGCGC
 AAATGATAAAAAGGCTTAAATTTGATCTACTATTTTTCAGAGCAGGGTCAAGCGCTC
 CGCGAGCGGAGCGGTGAAGCAATCTCGCGGCTTCTGGGCGATTTGATTAAGAT
 TTTGAGGATGCCGACGCTGGCGGCGCATCGGAAGCGCTTCGCGCATCACCTTCGCT
 CAGCAAAATATTGTGATGGCGATGATGCCGCTTCAGGACAGGATTTGAGCGAACGCTC
 GAAATATTTCGGCGTGGCGGGTTTGTCTGCGCTCATGATGCCAAATCGTAGCTTCGGCG
 TTACCCGTGTGCATCAATCATCCAATGTACGAAATCGGGTTCAGGTTCGAGCTGTAT
 TTTATTTGCTGCCACGCGCTCTGCTTCCAACCTGACGCGCGCTGATCGGTAAGGTTACAT
 GATGTGCGAGCGGTAATCCGCGGTTTTCGGCGATGCAATGCAAGCGGGTGTGCTGT
 ATATCGCGTAATATGATTTGATTTTTCGACAGGATCACTTTGCAAGCA
 AACCAAAATCGCGCTGTTTCGCGCGCAATGCCATTTTCCCATACGGTATGCGCGGT
 CTCTCGCGCGCGCGCTCAAAACGGGATGTTGCGGTTTCGGGATGGGTTCAATAGTT
 TTGCAGGTTCGCGTGCACATTTGGACAGATGGTGTCTATTTCGCGGATTCAGTCTTGGT
 AATAGGTATAGGTTTTCGCGCACTTTTGGCGCTCGAAGTTTTCGTTCTTCGGGAT
 TGAATTGACATCCCAAAAGCCCGCTGTTTTCGAACGCTGCTTCCCACTCAGGTT
 TTTCTCAATCAGCGGTTGAGGAATTTGTGGCATCGGATTTGGTATGATATCTTTG
 TCTCCATATTTACGGAATATGGCGATATACCTGGTATTTTCAACGGGTAAGCGG
 CTTTATACGAATATCGACGGGATAGGGGCTTTTATATAGATATAGAGCTTTT
 GCAACGGAAGCCCGCTTTATGTCGGAATCGCGCCCTGCCCGCACTTTGTCAACCAA
 ATCGCGCGCGCGGAGTGGTTCGAAAGCGCTGCCAACGCTTGAAGAAATCGTTGAACAA
 AGTATCATGCTAGCGCAACGGCGATTGAAGTCTGAGCTGGCGGCGCGCATCGCGCTG
 ATTGCGTTCAGCGACACGGCGCGGCATCCACCCGAGACATGAATTTGCGTCCAC
 CGCGACGCGACGCAAAATCAAAACCTTAAACGATTTGGGAACGCTGCCAGTATGGG
 TTTTCGGCGAAGGTTTGGCAAGCATGCTCGCTCGCTCAGCGGCTGACCTGACAGCGGT
 CAGACGACATTCGACGGGACCAATGACAGCGGAGAGCGGAACTCGACAGCGG
 ACCGCGCGCGCCACCGCGCGGACCAATCGAAGCGCGCAACTCTTCTCAACACC
 CCGGACGGCGAAGTTCCTCAATTCGAAACACCGAATACGCGCACTGCGGCCACATG
 CTGGAAGGCTCGCGCTGGCGCATCCGACATGCTTCTTCGCTCAACGCGACGGCAAA
 CAGGTGTTCAAACTCCCTGCACAAAGCTGATGAACGATTTGCCCGCATTTGCGCGGAA
 GACTTTCAGACGGCATCTTGGGAATCGACAGCGCAACGCGCGCTCGGCTCTATGGT
 GCGATTGCCAAACGACCTTTCCGCAAGGTTAAACGCAACAAATACCTGCTTCATC
 ATCTGTTTCGCTGCGCAAAATGATGCTCAACGCTTCAGAGCGGATCGACGATGAT
 TGTCAACAGCATCACTCCGCGCTTCGCTCTTTTTCGACCTCGCGCGCGAGCGGTG
 GATGTCAGCTCCACCGACCAAAACGAAATCGGCTTCGCGCAGCTCAGCAGGTGTCAC
 CAACTTTGTGTTCCACAGCTCAACAAAGCGCTTGGCGACACGCGCAACCTGACCGAA
 AGGCTCGGCAACGAGCGGAAGTGTTCATGACATTTACGGCGGTTGTCTCCACCCCAATG
 CGGCTGAAAACGACAGCGAAATCTGTTTGAATAGCTATCCAATACCGACAGGCAAC
 AAATAGATACACAATGCTTTGGTTCATCAGGCAAAACGCGCGCTGCTCATGAC
 TCGCATATGCGGCAACAGCGACATCTCGCGCTCGGAAGGATTCGCGGATGATGAT
 ACTTACGCGCACTTTACAAAAACAGCAACATGACCTTGAAGTGAAGTCTGAG
 CAGCGAGTTTTCGCAATATGCTCTGATGAACGCTGCTGCCCAACAGATACGCGGCT
 TCAGACGGCATCCGTCCTCAATCGAATCGCGCGGCTCGGTTTTCGATTTGCCCAATTA
 CTGGCATCTACATTTCTGCCCAAGCGGAAGACAGCTGTGCTCATGATGACAGCGC
 GCCGCGCAACGCTCAACTACGAAAAATGAACCGCAACGTGACGAAAAACGCAACCTG
 CAAGCGCAACGCGCTGCTTATTCGCTAACTTTTCGCGCTGCCACGAGATGCGCGCGC
 CTTCGCGATTATGCGCAAAACGCTTGGCAAGCTTCGCGATGGAAATTCGATATGGCGAG
 AACGCTTCGCGCAACGCGGCTTTCGCGCAACGCTTTCGCGCAAGTGTCTGCTGCT
 GCCAAGACGATTTAAACGAATCGGCCAAGTTCGCGCAGCAGCAACCATCGAGAACAC
 GAAACCGCATCTCGCCACCATGCTCTGCCACGGCTGATCGCGCGCGCGCGCGGCTC
 ACCCTGCCGAAATGAACGCCCTTCTCGCGGATATGAAATACGCGCGCAGCAACAG
 TGCACCAACGCGAGGCGGACTTTGGGCTAACTGACTTTGAAGAAATTTAGACGACTGTT
 TTCGCGGACGATGAACGAAAGCTGTAGATATCGCGCGCGGACGCGCTTCGACAGG
 CATGCGGCAACGACGACGACATCAACGCAACGCGGAAACGAGAAATACATGGCTTATCA
 AGTCTTCGCGCAACGCGGCGGCAACCTTTCGCGGATTTAGTTCGCGCAGAACGCT
 CGTCAAGCGCTCGAAACGCGCTGGAAGAGGCGGCGTCAACAGCGCTACCTGCTGAC
 CGCGACGCGCGGCTAGTAAACACCATCGCGCGCATCTTCGCAAGAGCTCACTG

Appendix A

-331-

GGAAACCGGCACACCGCGCAACCTTCGCGCGTATGTGAAAGCTGTAGCGAGATCGATGC
GGGAGCGTACGTGACGCTGCTGGAAATCGACGCCGCGCTCCAAACACAGGCGATCGACAACAT
CCGCGAAGCTTTGGAAACGCCCAATATCGACCGACCGCGGAAATACAAAGCTTATAT
CATCGACGAAGTGCATATGCTTTCCAAAGAGCGGCTTCAGCGCTATGCTCAAAGGCTCGGA
AGAGCGCGCCGCAACGCTCAAAATCATCTCGCCACCAOCTATCCGCAACAAAGTTCGCGT
TACCTCTTGTAGCGCGTGCCTCAATTCGTCTTAACCAATATGACCGGGCACAAGATGTGC
GCGACCTGGCGCGCTGCTCGGAGAGGAAATGCTGACAGGCGCGCGCGCTGCGATGCA
ACTTTTGGGACGCTCGCGCGCGCGATCGATCGAGCGGATGCTTGAGGCTCTGCAGCAAGC
CATCGCGCTTAGTGTGCGGCAAACTTGCCGGAACGATGTCGCCCAATATGATCGCGCGGT
TGACAAACAATACCTTTACGAACCTGCTGACAGGCTCATCAACCAAGACGCGCGCGCT
GACCGCCAAAGCGGAGAAATGGCGGCTGTGCCTCGGCTTTGACAAACGCTTTGGCGGA
ACTTGGCATACTGCTGCAACACCTCGCGCTGATACAGCGATGCGCAATGCTTTGGGCGA
CGAGCGCGCGGATTTGGGATATTTTGCACCGCTCGGCCAAACCATAGCGGGGAACAAAT
CAGCTTTTACACCAATCGCGCTCACGCGGAACGCGACCTCAGCGCTCGCGCGCGGACGA
ATAGCGCGGCTTTGATGAGCTCTGCTGCGATGCTGCGCTTTGCGCGCTTTGGCGGAGG
ATGCTGTGATGCAAAATGCCGTGATTGAATAACGCACTAAATCCCACTCGGCGACAACAC
CGCGCAAAAGGAAACCGCGCGCAAAAGCCCCAACCGCGCTTGAAGCGGAACCGCGCA
AACACCGCTTCAGACGGCATCCGACGACGAATGCCGTCTGAAGGCAAACTGCGCAAC
CGTTACCAATCAAGAAAGAACGATATTCCGCTTCGGGAAGCGCGCGGAGAAAGGCG
AGCGCGCACCGCGCGCAACATCGGCAAAAGCATTCAGACGGGATCGGAAGCGCGGAAGCG
CGCCAAAACCAAGTTTCCAAGAACGAAGCAGCGGACCAACCAAGCGATGCCCTTTGTC
CGAAGTGCCTCTTGAAACCCCTTCAGCGCAACGACGATATGAGCCCTTGAAACAGA
AGCATTTGCAACGAAGCTCTCTGCAAACTTTCAAAGCGTTACAGCTTTCCGGAATGATGA
CTAGCTCTGTAAGAAGCGCGCGAAATCCCAACCGCGGATTGGGAACAGCGCGCGCTGC
CGATGCGGGAAGAAGAAACCAACGCGGACGGAAGCAGCAACAGAGACACACGCGCAT
CGCGCGCGCGCGCGAATTTTGCACCGAAACTGGGACGCTATCGTGGCGACTTGGCGCG
CAAACTCGCGCGCGCGCAATTCGCGCGCAACCTCGCGGTCGAGCAATACATCTCCCGA
CAGCGGCTCTAGGTTTGGCAATGACCGCGGACCGGACGCGGACGCGCAAAAGGAG
CCTCGCAAAATATGCGCAAGCTTTGCCCAAGCTGCGGACGACCTGCGGACCTCGCGCAAC
CGAAGCTGGCGTGAACAAGCGCGCGGGAACCCCGCGATGGAGGACAGCGCGCTCA
AGCGGAAGCAGCGAAAGCAACGATTTGCTCGAAGCGACCGCGCGGACCAAAAT
CCTCGAAGCATTTCCGCGCAATGCGACCGCGATCACTCGAATTTGGCGCAACCGCGCG
ATAACAGATATTAATGCCCGCGAACCCTTCGGAGGCAATTCGCTTTCCCTTTATCAAT
CAAAACAGACAGGATATCAAGTATGCTCGAAAGCGGATAGCGGCGCTGATGAAC
AGGCGCAGCAATGCGAGAAATATGAAGAAAGCGCAACCAATTCGCGCAACCGGA
TCGAAGCGAGCAGGCAACCGCTGGTCAAAATCACAATTCGCGCAACGAGTAC
GCAAAATCGACAGCGCGGATTTGATGATGCGGCGCGCGCGCGCGCGCGCGCGCGCGCG
AAGACTCATCTCGCGCGCTCAAATCCCGCGGAAGCAACCGGAGCAAGACCGCGCA
AAACAAATCGCGCGATTCAGCGAAGGTCTACCCCGCGGATCGCGCGATTTCTTCGCGTAT
CCCGACCGCTATTCCACGCGAGCGGGAATCTAGAACGTAGAATCTAAGAACCGCTTT
ACTCGATAAATTTCCGTGCGGAGGGGTCTGGATTCGCGCTTCGCGGGAATGACGCGATC
AGTTTGCAGGATTCGCGGTGAACGCTAATAACAGTGAAGATGATGAAGACGCAAAACCG
CAGGAATAGCGGGAATCGCGAGGCTGAAGCCCACTTACCAATATTTACACATCGGTAC
GCTTAATGCGCTGCAAACTTCTGATTCCTCGTGAAGCGGGAATCAACCGCGTGA
CGAGAACTTACACCGCTCATTTCCCGGACACCGCGGAATCAATTAACGAAACGACA
GGAATCTATCGGAAACGAAACCTCGACCGCTCATTCGCGAAGCGCGGAATCGAT
AACCGAAACACACAGGAATCTATCGGAAAAACAGAACCCCGGACGCTATTCCGCG
AACCGGGGAATCTAGAACGTAGAATCTGAGAACCGTTTACTCGATAAATTCGCGCG
GACGGGTCTGATTCGCGCTTCGCGGGAATGACGCGATCAATTTGAGGATTCGCGGT
AACGTTAAACAGTGAAGATGATAGAAACGCAAAACCGCAGAAATAGCGGGAATGGC
AGCTGAAGCGCTGCGGATGATTAATCACTCATCTGATGAGCAACAAATTCGCGTGAAT
TCTGATCTCCCATGAAGACGGGAATCCGCGCTGGGAGGAGAAATCTACCGCGCT
ATTCCCGGAACGCGGGAATCCAGTAACCGAAACACACAGGAATCTATCGGAAACCA
GAACCCCGCGCGCGCTATTTCGCGAAGCGGGAATCTAGTAACGAAACACACGGG
AATCTATCGGAAACAGGAAACCCCGGACGCTATTCCCGGAACGCGGGAATCTAGAA
CGTAGAATCTGAGAAACCGTTTACTCTGATAAATTTCCGTGCGCAGCGCTGGAATCCC
GCTTTCCGCGGATGACGCGATCAGTTTCCAGAAATTCGCGGAAACCGCTAAACCGCGAG
AATCATGGGATGCGGCGCTGTGAGCTGTACACGCGCGGCTTTGTTGATGATGTGCTTTG
TTGCTGCGCTTTGATGAGAGAGATCTCTAGAGTATCTCAAGCAAGTGAAC
GTCTTCGCTACTATTGTACTGTCTCGCGCTTCTCGCGCTGTCTGCTATTTTGTAAATCCA
CTATACAAACTCAAATGAAGCGGTTCGGAGCGGCTCAAAACACGCTACTTCGAGAC
AGAAGTACCGTTTATCGGGATTTCAAGTTTATTCTTCGCGCGGTTCGCGCTGCTTCG
TCTGCTGCGCTTCGCTGATGTGCATTTCTACGCGGTTGAGGCGCGGATTTTTCGCTG
ATTTCATTTGGGAGTTCGCGATTTCCTTCAGCGCAGACGCGGACGTGTCTTCGCTTGA
CGGATTTTCGCGCGGTGTAGCTGTACACGCGCGGCTTTGTTGATGATGTGCTTTG
AGCGGATGTGCGCGCGCTTCGCGGCTTCGCACTGATGCGCTTCGTAAGATGTGAAC
TCTGCTCAGCGACGCGGCGCGCTTTGTTTGTGATGACTTCAGCGCGGTTCGCTG
CCCACTACTCTTGCGCTTTTGTATGGATTCGCTGCGCGGATCTCGAGCGGACGGA

Appendix A

-332-

GAATAGAAATTCACGCGCTTGC CGCGGTGGTGTTTCGGGGCTGCGGAACATTACGCGG
 ATCTTCATCCGGATTTGGTGTGATGAACACCAACAGCGTGTGGTGTTCCTTGTATGTGTCGG
 GTCACTTTGCGCAAGCGTTGGCTCATCAGCGCGCGCTGCAGTCGCGACATGGCTGTCCCC
 ATATCGCCTTCGATTTTCGGCTTTGGGGACGAGTGGCGCATCGGAATCAGCACTACCATATA
 TCTATGCGCGCCGAACGCGACGAGTGTGTGCAGATTTCCAAAGCGCTGTCGCCGCTATCG
 GGCTGGGACAGGTAAACGCTCTTCGACTTTTACGCGCGGATTTGCGGGCGTAAACGGGATCA
 AAGCGGCTGTTCGGCATCGCAAAAGGCGCAACGCGCGCTTTTCCTGGCATTTGGCGAGCG
 GCTTCGAGGACGAGCGGGTTCCTGCGAGGATTCGCGCGAGGATTTGACGATGCGGATGCGG
 CCGCGGGGACAGCGCGCATTCGAGGGCGAGGTCTAATCCGAGGACATCCGCTGGAAATG
 ACTTCGAGGTTTTCCTCTGCTGGCTGCGTGCATTTCATGATGGCGCTTTGCGCGAAA
 CTTTTCCTGATTTGCGCGAGTGGCGGCGCAAGTCTTTGCTTTTGTGCTTGACATTTGGG
 GTTACTCGGAAACAAATGCGGTATGTGGGATGCGGCGCAACAGCGGCTGCGCGCGGGAT
 GTGTATCGTTTTCGCGATGCGGGGCTATCGGTAAATGCTGCTTCACGAGGTTGCCATTAT
 CGATATTCTTCTGCTTCGCGATATGCGGAGACGCGCGGCTTTGGCGGCGGATGGAAAT
 GTGGATGCGCTTAAAGCGCGCGGCTTTGTATATATGGCGGCTGTTTCTGTGTGT
 GCTGTGTTTATGTGTTCTGCGCTGTGTGTCAAATAACCGTTATCGGAAGCGGACGCAAC
 AAAATCGCGGTGCGGCTTTGTGCGCGGATGCGCGCGAATTTCCGCGCTACTTGAGCAA
 ATCAAAAATATGCTTCGATATGCGGAGTTCCGCGCGACTTTTGTGAATGCGCGGCG
 AGTATCGCGCAAAATTTGCACACACGCGACCGCTCGCGACGCGCTCCCGACAAAGCG
 CTGCTGTTTACGTTACAGCGGATGCGGAAGCGGCTGCTTCGCGGTGTTCCGCGATTAT
 TATTTTGAACCTGCTGACGCGGTGATCGAAAGCGCGCTCGCGGACATCATCGAGATTGAG
 CTGTTTTCGCGCAACCGCGCTCGCGTGGCTGGCAATGCTCAAAAACGCGCAT
 GCGCGCTTGTCTGCAATCATGAGTTTCACGCGACGCGCGCAAGAAAGATCTGATGCG
 CGTCTGAACAGATGAGGAGCTCGCGCGGACATCTGCAAAATGCGGTGATGCGCGAA
 AGCGCGGAAGATGTGCTGACTTTGCTTCCGCGACGCTCAAGCGGAAGAGCTTGCGCGCC
 AAAACCGATTGTACGATGTGATGCGGCGAGCGGGGCGGTGACGCGGCTTGCGCGACAG
 GTGTTGCGCTCAAGCATACGTTGCGTTCGGGAACGCAAACTCCGCGCGCGGCAAAATC
 GCGTATCCGCCCTCCGCTGCGACCTGCACTGCTCTGAAAAGGCGGAGACTGATTTCAG
 ACAGCATCAAAATCATGATGATCTCATCTGCAAGCGCTCAAGCGCGCTGACTGCTGCG
 CGCGCCACTCTCTGCGCGCTGCGCGGTCGAGCGCGCAAAAGCGCGGTGATCTCAAA
 AATTAAGCATTTGATTTGCTCAATGCTGCGCTACTCGCGCATACCGTTGCGCAATTACCTT
 TACCAACAAAGCGCTGCGGAATGCGAGGACGCGCTTGCGCAAAATGCTGCGCAACGCGA
 AACGCGGGGCTGAGGATTTCGACGTTCCACTCTTTGGCGATGAAGATTCTGCGCGAAGA
 GCGGAACCATATTTGGTTCACAAAAAACTCTCTCATCTTCGATTCTACCGACAGCGCGAA
 AATCATCGCGCACTTTAGCGGCTACGCGCAAGAGAGCGGATTCAGGCGCGACACCA
 GATTTCTTGTGGAAGAAAGATTAAAGCGCGCTGAGATGCTGTTGACGCGGATCGAA
 CATTTGCGCAACACGAGCGCTGATGCGGCTATCAACGCTTACAAACTTACAAACT
 TCAGGCACTGGAATCTGACGACTTATCCGCTGCGTGGCGCTGTTGTCGACGAACAG
 CGAAGTGGCGCAACAAATGCGACGCGCGGCTGCGTTATCTGTTGGTGAGCAATGCCAAGA
 TACGAATACCTCGCAATTAGTTGTTGATGAAGCTGCTGACGCGCGGAAGGTATGTTTAC
 CGCGCTCGCGGACGACGACCATCTCATACGATGCGCGGCTGCGAATGGAAAACCT
 CGGTAAAATCGAGAAACATCTCCGAGATGAAGTCTACAAACTGGAGCAAAATACCG
 CTCACCGCGCGGATTCTCAAAATCGCAAAAGTCTATCGAAACACCCGCAAGCTGTT
 TACCAAAAACTTTGTCGATTTGGCGCAAGCGCGGCTGCAAGTCTGTCGCTGCA
 AAGGAGCAACACGAAGCGCATGCGCTGTCAGCGAACTCTGCAACAAAAATCATCGG
 CGCGCAACAAACCCATATGCGGATTTGCGCGGTTATATCCGGGGAAGCATCAGCGGAG
 GATTTTCGAGGAAGCATTTGCGCGGCGCGCATCCCTACCACTCTCCGCGCGACAAAG
 CTTTTCGCAAGAGCGGAAATCAAGACGCTGTTGCTTATGTCGCGGCTGTTGCCAACCC
 CAACAGCATTCGCGCTTTTCGCGTGGCTTACCAACGCGCAAGCGGCGATCGCGGATGT
 CACGCTGCGCAAGCTCAACATCTACGCGCACGAACAGCAATGCAAGCTGTATGAGCGCG
 GCAAAACGAAGAGCGCTTGCAACGCTGACCAATACCAACGCTGCAAGCTGCAAGCT
 TGTGATATTTGCTTACGCTGCAAGCGGCAAGCGGCAAGCGGAGTGGCGGATCTCAT
 CAACAGCGCTGCTGCAAGAAATGACATATGAACCATTTGATGCAAAACGAGAGAGGCAA
 AGCGCGGCAAAATCAAAATGGCGCAAGCTGCGGATTTGGTATCATGTTTTCGCGGAAAGG
 CGGGGAAGACGCGCAAAACATCATGCACTGCGCAACCGCTGCGCTTGTATGACGCTTTT
 GGAAGAAAGAGCAAGAAAGAAACCATGCGCTCTCGCTATCCACGCTACACGCGGCAAA
 AGGTTTGGAGTATCGGTATGTTTCTTGTGCGGTTGCGAAGAGGCGGTTTTCGCGGACAA
 CGACAGATCGAAGGCGCAACCTGAGAAAGCAACCGCGCTGATGTACGCTGGCATCAC
 CGCGGCTCAAGCGCAACGACGCTGCTGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG
 GCACTTCCCGACACCGGACCATCTATAGACGAATGCCCGGAGAGATTGAAATCCT
 GGGGCGCAAGGCGGCGCAACGATTGTGCAAGAAAGAGGCAAGCGACGCAACCTTGCGGA
 TATAATCGGAAGGCTCGACAACTTAAAAAAAGCGCGCGCGGATTAACCGGAGCGCGC
 AATGCGCTGTGAAGGCTTCAGACGGCATATTTTGTGACGCGCGCGCTAAAGCGGTTTAC
 CGCCCAAACTCTGCTGCTGCTGTTTTCGCGCAAGATGCGCCACGCGGATACCGGATCAAGG
 CGGACGCGCTTCTGCTGCGGCGGAGGCGCGGCTATCAACATTTGCGGCGGCTGACG
 AGGTCGCGGATGCGGCAATGAGGCGGAGATGATGCTGCTGCGGCGGATGATGCGGAGAT
 GGTAGCTCTTCACTGTGAGCGTTACGCTTGGGCTTGCAGCTTTTGGCGGCTGATTTGCG
 GCGCAAGCTCTTCGCAAGATGGGAGGCTGCGCGGAGCTGCTGAGCGGCGAGCTCTT
 CGGGCAGGCTAATTTCTGTGGAGATTTTGGAGGCGCTGCGCTTCTGCTTTCGCGGCGGCT
 CGTGGCTACGCGGCAACCAATCATAGAGCGGATGATCGTAGGCTCGAAATGTTTAAAGA
 GTTTCGCGCGGCTGGAACGCGCGCAAGTGCCTGCGCGCTGCGCATACCGAGCTGCTATT
 TTTTCAGCGTACTTTCGCGACGCGGGGATTTTTCGCAAGGAGGAGGTTTCCAAAAATG
 CAGTACCTTTGCGGCGGCTGCGGCGGAGGATTTGCTGCGGCGGCGGCGGCGGCGGCGG
 TTTTCGCGCAAAATTTGCTGCGGCGGATGCTGCGGATGAGTCAAACTGTTTTCGCGCA
 AATGCGCGGCGAGGATTTCTTTCGCAAGCTGCGCGGCTAGGAGTGTTTTGAATTAC

-333-

TCGATGCGCCAGATGACAGGCTTGTCCAGCAGCAAGGTTGCATTAATAACCGTATACACCG
 TGAAATCGCGCTGAATCTCGCGGAAACATGACGGCTACCAATGACCAATGACGGCCGACAT
 ACACCGCTTCGGCAGACAGCCTCTTCCGGCTGTCCAGCAGCAATCGCGGAATCGACGCGAT
 ACTCGCGCTGCTCATAGATACGGCGGCAAAATCAGCAAGCGCGCGCTCGATCGACGCGACA
 CGACGGCGCGCGCTCTTCAAAATGGCGCTGCTGACGCGCTTCGGCATGCTGAAGATGTGCT
 TCGGCGCGCGCGCTGCTGACGCGCGCTGCTGACGCGCTGCTGACGCGCTGCTGACGCGCT
 TTCTCATCGCGCAGTGGGCAATTTCAATAATACGCGCGCTGAGTACGCTCGCTCACTAA
 AATGCGCTGTAAATCATACCGCTTTTCAGCGCGCTACGCAAAATCAGGTTTTCATATA
 AAATCGCTGAAATGCTTTCATGCTGACGCGCTGCTGCGGTGCTGCTGAGAGTTTGTGGCG
 GCGCGCTGCTGATGTTTCTTCTTCAAAATAGTGGCTGCTTGAATGTCTGACGAGT
 GCTCAATTTTGGCGTTTGGCCAAATCTGCAAGCGGAAACGCTTATCGCTGACGCGTGGCG
 TCGCGCTGATGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TCGCGCGCGCGCTGCTGACGCGCGCTGCTGACGCGCTGCTGACGCGCTGCTGACGCGCT
 GAAATGCTCAAGTGTTCACGGCTTGCATGGAAATTTGCGAAGGATGCTTGGCGTGTGCT
 TCGCGCGCGCTTGTTCAGCGCGCTTGTGTGAGTGTAAACCGCGAAGCTTCTTCATCT
 TCTGCTCAACTCAACCGGACCAATGTAATCGCGACGCTGCTGACCATTTGCTCATGCT
 TTTCGACGCTGTTTGGACAGACCGCTTGTTCGCGCTGCTCGCGGACATGCGCAAAATCT
 CACGACGCTGCGGTTTTCGTTGCGGAGTAAACATCGACGAGCAAGCTTACGCGCTGCT
 TCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TGTGCTTGGCATCGCATCATATCTCTGCTTCTGCTTGTGAGGTTTGGTATATCTTCGTA
 ATATCATCTGTTGCGGTGTCAAGTCAATGAGTAATGCTGCTGAGGTTGCAATTTATGCTA
 TCGCATCTTGGCGCTGTAAATGGCTGATCGGCTTATGCTCGAGTGGCTTGAAATCTG
 TCGCGCGCGCTGCTGACGGGACGAGCTTTTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GTGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CAGCGAATGGGTTTTCGTTGCTGAGTATTTGCGGTATGCTGATGACGCGACAGCAATCT
 TCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 AGGCT
 ATGCGATATATCGGGTGTGGTCTGCTGAAATTTCTGCTGCTTCTGCTGCTGCTGCTGCTGCT
 AGCATCATATACGGGTGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TCGCGCATGAGCTTGGGCTGCTGCTTATGCTTCTGCGCTGCTGCTGCTTCTCGGATCAT
 ACGGTATGCTGTGGCTTTCTCATGCTGAGCTGCCAATCGGGTGTCTATGCGCCGTGAC
 CAAGGACGAGATCAAAATCGCGCTCGCGCTCTCTCGACATCTTCGCGATACAGCGGTCT
 TCGCGTCCGCTATCGCGAGTACTCTGACGCGCTGCTGAGTATTTCTGATATTCGTA
 CCGCATATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CACGCGATATCACTGCTATGCTGCTTGGGCTGAGCTTCCGATTAAGGACGATCATG
 CAGGCTGTGTGAAAGAACTGTGTGGCCAAATATTAAGTGGCTTCTCTCGCAAGGSGTCT
 ATGACAAATCTCCGCTTTGCGGATCAACCGCCGCTCCGCCAAGACCTTGACAGAT
 AAGTGTGCGGCGAAGAGGCTCATACATCATCTGCTTCAAAACGGCTTGTGCTTTCGCGG
 AGCGCGGCTGCGATGCTTCAAGCAAGCTATATCAAAACGCTTGTTCACAAATGTGCTG
 TCTATCTTTCGCTCGACGCGGATGCTGCTTCTTTTCAAGTCAAAAGGCTGCTGCGATCT
 CTACGCTTTCGCTGCGCGGATCTGCTTCTTTTCAAGTCAAAAGGCTGCTGCGATCT
 CCGGATCTTCTGTTATGAGCACTCTGCGCATGAGCTGAGCTGCGACCGTGTCCAAACATCT
 TTGAGCATCTGAGAAAGGCTGTGATTTGTGGGCATTAACGCGCAACTCTGCTCCCCAA
 ATAGTGTGCGCGGATGCTGCAAGAGCGCTGCTGACGAGCGGTGTGAATCTGCAACCGG
 TGTGATCAACGCGGAAAGTGAAGACAGCTGCTGCGCGGATGCTGCGCATGCTGCGCATCT
 GTAAACCATATGTTTCTGCGGCAAACTGGTCTTAAACAGGTTTCTTATATCTCTCGCT
 ACCCCACAACTTTCGCGTGAAGTATTCGCTGTATTAACGTTCTGTAAACATCTACAC
 TCGACGCGCGCTTCGCGGATGCTGGCGGCTGCGGATCTCGGATGTTTGAAGAAAGCGGT
 AGGTCAATGATGCAATTAAGCTGCTTTCGCGCTGCTGCGGCTGATGAATGATGCTGCGCT
 AGGCTGACACCGCTCGTGTGTTTTCATGCTTCTCAAGGCTGCTGACCGCTTATGCTGCT
 AAGGCGGTGCGCTGTGATGACGTACGACATCGGCGTATCTTGCACCGCATCTGATCAT
 ACCGTGTGGGCTGGACATCGCATCTCATGTTATGAAGCGGCTGTCTGCTTCTGCGCA
 AAGAGTATGAGGCTGCTGCTGATGACGCTATGACGATCTCAGCATGCTGCTGCTTCTGCGC
 AAGGCAACACGCTATCTCTCAAGAAACACCGTGAACGCTGATGACGATACGCTGATGCT
 TCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TCGAAGGCTCTTCAACATCTGTTTATTTTATATATTAAGAAAAATTAATCTGACATCT
 TTAATTTTATGATAGGTTGATTTTCCCTTTTTCAGAAAATTAACATCTCTACGAGCTG
 TATTTTCAAGGACATGAACTGTTATGAAATATTCGGAATTTCAAGTCTTCAAGTCCGCT
 ATGACGAAAAAACACCAAAATAGGATTAACGTAACGAAACACATCAGACGACACCAAT
 ATGCGACGCTCGCGGAAAGGATTAACACGAGAAAGAGTTTTCGCTGTCAAAACACAC
 AGGCGAAGACCTATCTCTTCAAGACAGGCTCGGCTGATCTGCTGCTTAAAGCGATCTG
 TCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GTTCTCGCGAATATCGGACAGCTGCAATATTTGCGCTACTCATGAAAGCGCGCCCT
 ATGTCGCGCGCTTGTGCGAAATATCGAAGAGGACACACATCTCTGATAAATATGCC
 ACCGCTTCTCTCGCGAAGCTTCCCGGACAGGAGTTTGGTGTGCTCTCGACAGCT
 TCTGCTGGGCTCGCGCTCTCTTCTTCAATTTGCGAACAACGGAAATCTCGCAAGTCTG
 GTATCGCTCAAGCTGATCTTCTGCTGTTTCTCGCGAAGATTAATCTTCAAGCGACCTG
 TCTGCTTACACCTGCTGCGCAACCTCGCGGCTTGAAGGAAAGCAATCTCGGACACT
 TTAAATTAACACAGATACGACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT

Appendix A

-334-

TTTATGATTTTCGGCAACCCGGAAATGGTCAAGACACTTTCCAAACGCTGCTCGACATG
 GGTACGCCATGACCGCAACCGCATTTCCGGTCAATCATGATGGAJAAACGGCTTCTAA
 AAACCACTCGTGTGTCCGATGCTTTCCGATGGACGGGCAACCGACCGGCAGAAAC
 CGCGTCGGCAAAATGGCGCTCTGAJAAATTCAGACGGCATCTTCGGATACATTACCTGC
 AAACGGCAACACACCGGCACAAACCGATTAGGCAATCAACACGGTGACGGCTGTTACAT
 ACTTGCGCGCTTTCACCAACCGATATCGATTAAACGATTTCCCTTAATATTTTCCGCTGC
 CGTTTAAACTTGGCTTAAACGATTCGGTAAATCTTTATCGAAATACCAAGCCGCTC
 ATCATTTCCAAATGCGCCCTTCCTGCGAAGAGACTCTTTCCCGCCGTTCAAGGATC
 GGTTCGGTAAATTCACCATCATGCTATTTCCCAATTCACCAACCGGCACTGTGCG
 AAACGCCAAACACTGCTTCGTCAGAACGCCGCGACGCTTATCGCATCGCGCTGAAACATA
 TACGGGCAAAAGGCTCATCTCTGATAACCGTCGGGAAGGATACCGGCTCGCGCAGGACA
 CAATCGGTATGTTTCGGCCACGACGACAAAGCCGCTGCTGCGTGGCTTTTATTGGCAAA
 TAATCGGTAGGCGGATTATCGCTCACACCGTTTTCAAAGCCGCTGTTTCGGATTCAA
 CATGCGCTGTGAACCTTTTCAACCTGACGGTGTGAATGTTTAAAGCATTTTGGC
 AGACACATAAATCCGAATGATGACCGCCGACCAATTCGGCTTTAATCTATATCGATG
 CAGCTGCCCAATTCGGGAJAAACCGGATTCCTCGTATTCACCAATCAACGGGCG
 TTTTCGGAGTCCAATAAAGCCGAACTCGCTATATACCCCTCAACCTACCGATATA
 ATTTACTTTCCCTCGCCGCTGAAJAAAGCCGACGACCCCATACCTCAGGCAAAACGGTA
 CAACCTGTTCCTCAACGCTTCGGGACGCGCGGACGAGCGGTTTCGATTCATCAAAAG
 GAACACATGCCTGATCATGCTCAACCCGCTGTTCCGACAGACTGTATTCCAAATATCT
 ACACAATCGGATACATCCGGCATCGACGATGCTGTCTCCACAACAATCCCAACCT
 TCGATGATACTGTCAGGCTGTGCTGTAAATTCGGGATACAGACAGCCGGACGCTC
 CACCTCCCAACAAATTCGATTCGATCAACGATGACATGACATGCTTTTAA
 AAACGATATGCTGAACGGCTGTATTCGCAACGACGACCAACCTCTCAATCCGAA
 CAACCTCGCCGGCATCTCTGCAAAACAGGCGCATCGGCAACCTGCGGTCTGAATCCC
 CGTCAGCCGCCGCAACAATCGGGAATCGGTTTGAAGATTAAACCAACACTCATGCT
 CACCACCTTTCCTGCTCAAAATTCAGCAAGGCCACTTCGGTACCTGCTCTCATACAG
 ATTGCGCGCCGCTGATTCCAAATCAACCAACGCGACAGCATTCCAAACGCTAAAAATAC
 CTTTCCAGCAAGGGCCAGCGAGAGCAACATCATTTATCTCTTTAAATCAACAA
 CAACCAATATTTAGGATTAAGCAATTCATCAACAACAATTCAGACAGTCCGA
 TGATTACCTTAAATCTGGAATTTCTTCGACGCGACCCGATGCTCAGTTGATAGATA
 TCTGGCTACGAAACGAGGGTCTGGGCTTCGAATCGCTCCGGTGGCGGATGAAGAAAT
 ACAATATGCGCCCATCTGTAGCGGTAGGACATGCGCTTTCAGCGGATTAACCGGGGT
 TCGATTCCCGCTGGGCTGCCAAATCTAAATCCCGGATTTATCGCTCGGGGATTTT
 ATTGCTCAGCAACTCTTACATATCTTTACCTACCCCTTCATCAAGATCTCAGACGT
 AATCGAACTATTTCAACACTTTGCCGTCGAACCGGATATCCATACCCGGATCGGGT
 CGCTCCCAACTTTACCGGTTGAACCGCTGATTTATTCGACCAACAGCTGGCAT
 ACTTTCTTAACATCTTTTCGACGACNCACTAGGCTTTTATTCGATCACTAA
 ATTTATAGTGGATTAACTTTAAACAGTACCGGCTTCCTCGCTTGGCTACTATTTGT
 ACTGCTCGGGCTTCGTCGCTTGTCTGATTTTGTAACTCACTATAATTTCTCT
 CCGGATTGAACAGGCGTAACCAATTCGCCGAAGCTCCGGCTGCTTTCTGTTTACGGCC
 CGCATATTAGAGTATAATACCAATTTGACCAATAGTCTTAAACAGTAGAACCATTT
 TTCATGAGCCTGACTGATCGTACACTCGGGAACCTGATGAGAAATTTTGAACCTT
 TGGTTATCGTGGAAATCCCTTACCCCATCTGTCGAAGCGGATGGGGTTCGGTGT
 CGCATCGGCTTTTCCACCGCGGTGGCGCTGAJAAAGGATTCGGAACGATGCGATG
 TGGATTTCGGCCACTTCACGAAGCACTACTCGCGGAATCAAAATCAATCGATGAG
 AGAATATACATCTTTGAACCTTACCGCATTAGACAGGGAATCCRAAAGCCAAAGCG
 CTTCAAGGGAAJAGGATGATTGCGGCTCAACGCTGATGAAGCGGCTCAAGACCAACGCG
 CATATGTCGCCAGGCTTGCGAATCAGGGGCGGATGCGGTTGTAATGGTTCGGCGCTGC
 CTGTAGACTCGCGGAAATGACCGAGGGCTATCATAAAGATGTCGCGCTGCTGCCGAT
 TGTCCGAATCGCGGCTTATTAATATCTGTTTGAACGTTGGATGAAJAAAGCATATTG
 CGATGCGATTTATGCTGCAACA TCTGCGCAACGAGGATCTGCTGCTGCTCAACG
 TCAAGCGCTAAACGTCGCAAGTTTCGACTCAACCGCTGATTGAGGAAGCTTTGAAG
 TTTTCAAAAGTTTAGGCTGGAAGCGAAJAAATCCGCTTATTTTCGGGAGGCGATG
 CAAATTTTGAJAAJGTCAAACCGCCCTAAAGAACTGGGGAGCATCGCGCTTCAANTCG
 GTACGGCTTTTGGCGTTACCGGAAGAGGATGCACACTTAACTCAAAAACCGCTCG
 CGGCTGCGGAACCTGAAJAAAGTATCGAATTTATGCTGTGCGCGTTTCGCGGCGCGCG
 GTGTCGCGACAAATTCCTAGACAGCTACATCAAGCGTGAAGCAAACTCAGACAAAGC
 CAAGCGCGACCGCGGCTGTACCAAGGTTTAAACGCTTAACGACTTGGGCTGTCG
 CGGACGGGCTTTTCAACGACGACTGTGATGATGATGATGATGATGATGATGATGATG
 GTGAGGAAGTATGAJAAAGCGCTGTTCTCAGAGGTAAACACCGCTGCTTCGGCAATGC
 CATCGCACCGCTCGCGAGACGATCAATATCTGCTGACGGGAGCGAACTGTTGCAAC
 GCTCGGACGCTGACATCAGGTAGATTGATTGCAJAAJAAATCGGCTGTGAAGGCGTT
 TCAGACGCGGCTTTTCAGGCTGCTTCGGGAATAGTGTAAJAAATTAACGGGATGAGAT
 ACATTTATTTCTGCTCGCAAAATCAACCATCGCGCGGATGATCAATATGCTGCAAC
 GGCATCATCTGCGCAAGCAATGCAATGAAGAACCGGCTTTTATTTGCTTTGATAT
 TATGAAAGCTGATGATGATGCGGCTCAACGAGCAATGCTCTGCTGCTGCTGCTGCTG
 TGTCTTCAGCGCGCAACCGCTGCTGCGCTGCTCCACGCGACATACGATGCTGGTGC
 GCGAAGGGTTTGAACACCGCTCATATTCGCGCTCGGCTGCTGCTGCTGCTGCTGCTG
 GCTTGAGGGCGACGGTTGATGCTCGGCTTCGGGCTGGGTCGATCAGCAGAGGTTTCA
 AAGGCTGTTTTCGCTCAAACTCGCGCGCGACAAACACTTTTTCGGCTCATATCGGGG
 AAATGAGAAGCTGCACCCCGATATGCGCTGTCAGCGCTTCTCATCCGATGAAGCTGGA
 TGTGATATGTTTGGCGCTTTTATAATAATCTGCTGATCAACCAATCTGTCGGTGTGCTG
 TCGGCAJAAAGCTATGCTGCGGCTGCGGATGACGCAAAATTCGCGCCCGCATCAAGA
 TCCACGCGCAGACGTGTTTGTACAGGTTTGTGAGGATGTTTGAAGACGCGGTTATTC

Appendix A

-335-

TCCGATAAAGGTTGCATCTTCTCCAAAGCAGCAGCGGCTTGCCTCGGGCGCGCGCTTTC
 CGCGATTGGAAGGTAATTCGATAGGGTGGCTGCCCTTTGTCGCGGTATTCCGGAATGGT
 GGACACTTGGACGGGAAGGTTACCGTTTCGCGGGGCAACCTTGATACCGCTTCGGG
 CAGCCCGCTCAGGCGGATTTCTGTAAGCCCTTGACACTTGGGCTATCAGCTGTCTTT
 TTCATTTTGTGATGATACGAGCGCTGTATGGTTTTCGAGCCAGCCTTTGGCGTTTTC
 GCGCCAGCATAGCCAGCGCTTTTCAAAATTCGACCTCGACCATTTTCGCGGTGACAA
 AGCGGCGCAAGCATGATGATACGCGCAAGCGCGCGCTGATCTGCACGCGGGG
 TCTGACGACCGCTTTTAATGTCTTTTTCAGAAATTCGTGTCCAGCGCGCTTTCGGT
 CGTATACCGGATTAATCCGCGCGGATAGCCCATTTTGTCCATAATCTCATCGACGCGCT
 GATACAGGCGGCGGACGCCGATACATTGGATTGACGACGCTTGGGATTCGATGCGGAC
 GGGGCGAGACTTGGACGCACATCGCACAGTTGATGCGATCGCCCAACCGCCTCTTCTCT
 ATTGACCGCTTTCTTGGCGGCGCGCGCGCTTCCGCGGTTCGCGGTATTAAGAACAAT
 CAGCGTGTCTTTTCGGAATCTCGCGCTTGGAAACGTGATCGGACGACATATGCAAGGCA
 TACTTTTTCACGCAATATGTGCGCTGAGGAAGGCTATAAGGCATTAACGCTGTCCGG
 AAACATCGCGCGGCACTGTGCGCTCAGTGAATAAATCGGGAACGAATCGGATAGG
 GACAACACGCGCTCAACGCTGATGCCCTCCACGCGGACGAAGGAATCAGCAGGTA
 TTTGTGGCTTTGATCGGATTJTATGGAATTCACGCGGATTTTTCAGTTTCAGCG
 TTTGTTCTATCGCTTCGACAGGTTGTCAATCCACGACATATTTGCGGTAAACCGT
 TTGCGGCGAGGAATAGCGGCACACAGTGCCTCGCAATCGTGTCCACAAAACAGCC
 GAAGGCGCAATATCATGACGACGAGCGAAGTAAATCAATCGCCACCCCAACGACAA
 TCCGAAATGAAGAATATCTGCGGTGCGGATATGGAACGACGCGCTCTGCCGTGCA
 GTTACACCGGAGGACGACCAATCTGCTGCCAATCGCGCGGATGATCGGAC
 TTTGGCAGACCGCTCTCCGCTTTTGGGATGATGCGCTTCCGTTCCGGATGATTG
 AATCACGCTGGCTCGCGGATCGAATGTTTTTTTTCGTTTCGGCGCGCTTTTGTGTTTC
 GGAAGTGGCGGATCCGGATGCCGACGTCGCCGCTGTGTTTTCGCTGGTATTTCTGCATTC
 CTTAGATTTTGATTGATGTTTTCGCGTACCGCGCGCTTTGCTTTTCAGCTGCAAT
 TTTCTTCTTTTAAGCGCTGTGTTTCAAGTTTGGAGAAATCGCTTTTCCCAAAATA
 TATTTCCGCTATGTACACATTTATGCGCGCGCGGATGTATGGGCGGATACATTTCCG
 ATCCGCTCAAAAGATTTTATCTTCCGCTTCAAAACATCAATGATGATGATGATG
 AAAAAAGCATAAAAAACCGACACCCCATATCGGCAAGCGGCGCGCAAGCTCATATA
 AACAAACGCTGACCAATCCGGGACACATCATATACTTTTATTTCAAAGGAATTAAT
 GGCAGGCTTCGCGCGCAATCGAAATCTTCCCGCGTCCCGTCCGCGCGCTCTCC
 ACGCTCCGCGCTTTCTTGAAGAATCAAGCGAATCGGCGGATATCAACGCTTCGAT
 TATCCACTATCTACCAACACCAAGGAATAACAAATGTCTCACTCGCGCAACCGCAA
 TCCGCTTCTCTCGCGCGATGCGGTTCAAAAGCAATTCGCGCGACCCGCGCGCGCA
 TGCTATGGGCAATATGGAAGGAATGTGTGTGAGCAATCTGGAATCAACACCGGCA
 ACCCAATTTCTACACCGCGGACGCGCTGTCTCTCCCAACGCGCAGCGCTTATGCTGT
 TGTACAGCTCGTGCACCTGACCGGCTACAACTAAGCATTAAGACCTTGAAGCTTGAACCTTCC
 GCCAATCGACAGCAAAACCCCGGCGATCCGCAATACGGCTACACGACGGCGTGAA
 CCAACACCGCGCTTGGGCGAAGGATTGCCAACGCGTGGTATGGCATTTGGCAGAA
 AAATCTTTCCCGCGAATTAATAAAGCGGTTGAACATCGTGATCATTAACACTAG
 TCTTTATGGGCGCGCGCTGTCTGATGGAAGGCGATTCGCAAGACGCTGTTCGCTCGCG
 GCACCTTGGGCTGGGCAATGATGTTTATATGATGACACAAATATTTCCATGATGT
 GTAAAGTGCACGCTGTTTACGAAACATCCCGACGCTTTGAAGCTTACGCGCGG
 ACCTGCTTCCCAATGTAAACGCTCATGACACCGCGGCAATCAAGCGGCTATCGAAGCG
 CAGCTGCCAAGACCGGCAACCGTCCATCATCTGTGCAAAACCTTAATCGGCAAGGCA
 GTGCCAACAAGGAAGCGAGCCACAACCCACGGCGACCTTTGGGCGCGGACGAATCG
 AAGCCACGCGCAACATTTGGGCTGACCTACCCGCGCTTGAATCCCGCAAGAAATTT
 ACGATGGTGGAAATGCAAGAACAGCAAGCGCGGAACTGGAAGCGGACTGGAAGCAACTGT
 TCGCGCAATATCAGCGCAATATCTCGCGGAAGCGGCAATTTGTGCGCGTATGATATA
 AAAAACTCGCGGATTTGATGATATCTTCAGCGGCAATGAAAGAGTGTGCGGCA
 AAGCCGAACCATCGCCCGCGCAAGCGAGCAAAACAGCATCGAATTTTGCAGAAAG
 AGTTGCTGAATTTGATAGCGGCTTCTCGCGACCTGACCCGCTCCAATCTGACCGCATGGT
 CAACAGCGCTCGTTTACCGCGACAAAGCGGCACTACATCCACTACGGCTGCGCG
 AGTTGCGCATGGTGGGATTAAGCGTTTGGTATGACGCGGCGCTAAACCCCTTGG
 CGCGGACTTTCTGATGTTTCAGGAAATACGAGCCAAATGCCCTGGGATGCTGCTGTGA
 TGAATATCAACTGTATTTGTGTTTACCAGCAATTCATCGGTTTGGGCGAAGCGCGG
 CGGCCATCAACGCTATTTGCGCAACCGCGGCACTGCGCTGCTGATTCGAATGATGCG
 GCGCGCTCGGACGCAATCCGCTCGGCTTGGTGGCTTGGGCAAGCGCTCAAGCGCGCG
 ATCACCGCTCTGCTGATTTCAGCGCTCAAAACCTGAAATTCGAAGCGGCGAGCGGAG
 ARCAACTGAACGATCAACCGCGCGGCTACGTCTACGCGAAGCCCAAGCGCAACGCC
 AAGCGCTCATCTTGCACCGGCTCAGAGCTCGAGCTGGCTTTGGAAGCGCAAAAACCC
 TCGCGCGCAAAACATCGCGCTGCGCTGCTGTTTCCATGCGCTCCACCACTATTTCAGC
 GCCAAGCGCGGCTATCAAGCGCGGCTCTGCCGAAAGCGCTTCGCGCATCGCGGTAG
 AAGCGGACGCGGCTGATTTATGCTTTCGCTGATGATGATGATGATGATGATGATGAT
 TCAACCGCTCGGACGCAATCCGCTCGGCTTACTCTTCAAGCATTCGCTTTACG
 TGGCAATGTGTTGATACGCTGAAATCGCTGTGTAACCCACACATTAACAAATGCGG
 TCTGAACCAATTAGGCTTCAGACGGCATTTTATTTCTCGCGGCGATGATGCTTTCT
 CATCCCAACCAATCTCATATAATTTTGGCAATCACTCTTATTCACATTTCAAAGGAG
 AAGCGATGAGCACCGGATACGGAACACGACGATGGGCAATGTGAAGTCCCATCGGAA
 GCTTATTTGGGCGCGGAGCCAGCGGCGGCGCAACATTTCAAATTCGCTGGCGGCAAC
 CTGCGGACGCGCTGATTTATGCTTTCGCTGATGATGATGATGATGATGATGATGAT
 TTTTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 GTGTTTCAGCGCGCACTTCGAGCGGAGTTCCATCTGTGATGTGGCAGACGCTTCCGCG
 ACGCATGCAATTAAGCATGAAGCAAGTCTGGCAAAACCGCGCAAGCAATTCGCGGT

Appendix A

-336-

ACGGGTTTGGCGGGTTATCAGCGCGTCCATCCAGAGCACTGTGAACACGCGCAATGS
 ACCAACAACGCAATCCCGACCGCTATCCACGTTGCCCGCGGATGAATCAACCGGCCAC
 CTCATCCCGCGCGTAAAAAGCCTTGGCGGACAGCTTGGCAAAAAAGCCAGGCTTTGGCG
 CCTATCGTCAAAATCGGCCGACCCACTTGCAGAACGCGACGCGCGTGAATTTGGGACAG
 GAATTTTCGGCTACGTTTCCAGCTTGATCACGTTTAGGCGCTGTGAACGATGCGCTT
 AAAGACTTGTATGAATTTGCTTTGGCGGGTACGGCGGTGGCACGGGTTTGAACAGCCAT
 CGCAATACCGCGAAAGACGGCGGCCAACTTCGCGAATTTGGCGGCTTGGCGGCTTTGGTC
 AGCGCGCGAAGCAATTTGAAGCGCTGGCGGACGCGAGCGCGCGGTGGCGGCTTGGCGG
 GCATTTGAANAAGCTGGCGGCAAGCTCGAACAATTTGCCAACGACATCCGTGGCTGGCA
 AGCGCGCGCGTGGCGGTTTGGCGGGAATCAAAATCCCGCAAAACGACGCGGTTCTGTC
 ATTTATGCCGGGCAAGTCAACCGCACCAATGGGAAGCAATGACGATGTTGCTGCCAA
 GTGTTCCGCAAGACGCTTACATCGGTATGGCGGCGCGCTGGGCAATTTGAGCTGAAC
 GTCTATATGCGGCTTATCGCTACAGACTCTTGCATCATCCACTGCTTGGGGGACGCGG
 TCGCAACGCTTCAAGCAACCTTGGCGCTCGGCATGGAACCGGTGGCGGAAAAATTCAG
 TATTTCTGACCATTTCCCTGATGCTGTACCGCATTAACCGGTAAACGCGGTGAAGCA
 AACGCCCGCAAAATCGCAAAACCGCTACAAAAACACAATTCGTCGCGAAACCGCG
 GTTGAGTTGGGCTTGTGTCAGCGGGAAGAATTTGACGACCTGCTTCTGCCGATATG
 GTTCACTCCGCGTAATCTTCCCTCAATAAAATGCGCTTGAACCTGCTTGGGACGCG
 ATTTTCGGTTGCTGCAAACTAGCGGCGTTTGAACGCTGTGCCCGACGCGCGGTAA
 CGCGCACCGCGCAACGATCAGTGGCTGCGATACAACCAACCGTTGATATCCGCGCGG
 CAAGAATCATGAGCATCACATAATGCCGCGGCAAGAAATATACGTAACACCGGGA
 GCAAGGTTGTTACCGCGTACTTTGAAGCGTCCATGTTTTCAGCGCTTGGCGGACG
 AGCGCTAACGATTAACGTATTCAACGCAATAGCAAAACACCCACGCCAAGCTAC
 CGTCCAAACTTCGATGTGTGCGGTTTGGCAAGCGGAGAACGCGCGGACCTGGCG
 CATAAATCAACAGCAATCTGTTGGCGCGAATTTGGCGGACAGCGCTTTGGCGCA
 CGGCATAACACACCCATGCCATACTGCTCGCGCACAGCAACAGCGCTTGCATAGC
 CGGCCAAACCGCGAACTCGCGCAATTTATCGTTAAAAACATAGCAAAACCGCGAAGCA
 GCMAAACCAAGCGATTTTTCAGCGCGAGCTATCCGCTTTTAAACCAACACACAGCA
 CAAATATGCGAATCTGCGCAATCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 AATGCAAGCTTGGCGAATCAAGCAAAATTTGCGGAAATGCGCGCGGCGGCGGCGGCG
 CGAGCGTAATGAGCACCAAGAAAAATTCGCGCGTTCGGCGAGCGCGCGCGGCGGCG
 GCAAAACAAACATACCGCGCGCGCGCAACGGTAAACGCAACCAACAGCGCTGGCGGCT
 CGACMAACTTCAATACCTGCGCGCGGCAATCGCGAGCGTTCGCCAGCTCATCGCGCGCA
 AAGTGCACCGGAAGCGCTAGGAGCGGCTTGTGTTTCTCATCTGATTTTCCATATT
 TAAACAAAGCAATTTTCGCGGAGATGCCGTTTTCGCGCATCGGCAATGATGTTCAAGCG
 TTTGGGCTTTGATTCGCAACCTTTGATGTCGAACAGCGCTGAGCTTCCGCTATGCT
 TCGCGCTATTGTCGCGAATCAAGCAAAATTTTAAATATGATGATACAAAGAACAT
 CAGCGTTCGCTCGCTTACGTCAAGAGAACGATTTCTAAGCTGTCAAGCAACAGTG
 AATCGTTCCGCTACTATTTGTACTGTCTCGCGCTTCTGCTGCTTGTCTGATTTTGTGTA
 ATCCACTATACGCTCTGAAACACGCGGGAGCTGCGCGAGGCACTACTGCTCAAAACGC
 CGCAACGCGCGCAATCGCAAGCTTCCGCGCAACGCAAGGGGCGGCAACAGCGCGGCCAA
 TGC AAAAAGAGAAACCTTGCCCGCTAAGGTTTAAAGTTTCTCGCTTTATGATTTTC
 CTCGCGAGGATGTTCCGCGCGTAAATTCAGAGCGGATATGCTGTCATATGCTCTGAC
 CGCGCGCGCGCGGCGGCGGCTTGGCGGCGCGCGGCTGCTGTTGGGATGGGA
 CGCGCGCTCGGAGCGGCGGCTGCGGCTTGTGCGCGGCGGCGGTTGTAAGCTCTGACT
 CTGACCGTAACTCTCTCGTAAGCGGCGCGCGCGCTGTTTCAATGCGCGCGCGCAACAT
 TTTCAATTTGCTGGCGACAATATGTAAGCGGCGGCTGCTGATGCGCTTTTGCTTGGTA
 TTTGCGGCTTTGGATTCTGCTTCCAAATAAACGCGCGGCTTTTGGAGTATTGCC
 GGCATTTTCGCGAGTTTGGGTACATGGTGATGTTGTGCCACTGATGCTCTACAGG
 TTGCGCTTGGCGGTGCTTCCAGTTTTCGCTGTGGGAGCGCTGAATTCACAAACGCTC
 GCTTGGCGATATGTCGCGCTTCTGATATGCTGATGCTGATGCTGATGCTGATGCT
 GTTCANTGACATTTTAAACTCTGCTGATGATTTTTCACGCGGCGGCTGATCAACAC
 CTTCTGCAACTTTTGAATAGACGGTCTGCCGCTGAAATCGAAACGATGCTTCCAC
 ACCCTCAAGCTCGCAAGCGCGGCTAATACCTTCTGATGCTGCTGCGCACAGCGCGC
 GACAGGCTAATGAGGTTTTGACGGGCTTGGCGCGAGGCTAANAAGCAATTACAG
 CCACAGACGATCATATCTGCAAAAGCAACACGCGGAAAGCGTATTTTGA
 CAGCAAAACCGCTGCGCGCGCGCGGCAACAGTGGAGCGATGCTGTTGTGATGACG
 CGCGCTCGCGTACCTTTCGCGGAGTGGCGGAGTGGGATGGAGCTATCGACCGAGCT
 GCTTCCACACAGCTTTCGCGCAATGTAAGTGAACACACATCAACAGTGAAGCGCTAC
 CGAGCGATACCGGACGCAACCGAGCTGCGCGCGCGCAATACAGACGATACCCAAAC
 AAAAACTGCTTAAGTTTGTGGCGGTCTGCGCGAGCAATACGAGGAACCATACAC
 CAAGCGGTAATGTTGGAAGGAGATGACTTCCAAATGCTGATTTTTCACAAACGAG
 CTGCGTATCCGGAAGCGAGCGGTAAGCAATGCAATTTGTCGGGCTGAGGCGAA
 AATGCGCAATCAGGCGCTCAGAGCTTACGTTTTCAAAACTTCCGCTATGCGCGAGG
 TCGCGCTCGGCTATCTTCTGAGCTTGAACCTTGGAGTATGGAGCTATCGACCGAC
 CAGCGCTATGCTGCGGCAATGAGTGGCTGAGTGAACACATGAGCTGCGGAGCGGAC
 CGCTCGCGAATCAGCGGCGCAACGAGCTGACGCAAACTGCAAAACGATCTCA
 ACCGATCATCGCTTTCGCGGCGTACGTAAGCGCTGCGGCTCAATCGCGGACGAGCGG
 GGTAAACCGCGCATGACGCGCTTGCACACTGTATGCGCGGTGCGGCGACGAGTGGG
 CAGCGTATGGCGCGCGCGGCAAGAAAGTGCAGCGCGCAACACGACGATCCGCA
 AATGGTTTTCTTGGCGGCAATTTGTGCGGAGGATGCCAAAGCGAGTTGCAAGCAGG
 CTGTGTGAGCGCTTAATGCGCAATTCGACGCGGACGAGGTTTTGTGCTCTCGCGG
 GCGACGCGGCGGCTATACGCGCAACCGCAATTCGAGTGAACGAGTGGAGTGGAG
 CAGCGCTACACCGCGGAAGCGCTGCTATGGCGCGCATTCGCGGAAACATTTGAT
 GCGGTTGCTCTTGCATCATATTTTTCAGAGGCGCATCAACGTTGAATGCGGCTGTA

-337-

[illegible]

Appendix A

-338-

TAAACGGGGCAATATGTGGAAGCAATTATCAGGAAGACCGACGGGCGCCGATACGAGA
 GCCATATGCCGGCTGGCGGGCGGCGAGCTGATGTATCCGGCGCGAAGACATGGCTGCTTT
 ACGGGCGCTGGGAGCTGGTGGCAACAATAACGAAGAGGGCGGAACAGGCTTCCATCGGA
 AGCGTTTGGGTGTGGCGCGGCTCAAAACGTTGCAGCGCGGCTTGGGCTTGCGGGCAAAAC
 TGGCGTATACCCGAGGATGTTTGGACGACCGGGACCAATTGTGTACGGCTTCCGGGCA
 AAGACCACGAATATCAGGCAAAACCTGTGTTGTGGCATGACAAATCTCTTGGAAAGGGCT
 TTACGGCGGACATCAATTTCCGCTATCTGGAATTCAGACGACATATAAGAAATTTTACGA
 CAGCAAAACGAGGATTTTATGAGCTGGAAAGCTTCAAAATGAGGAGGAGCAAA
 TGGCGCTGGGCAACATCCCTGGGCGAATCAAAACCGCGCATATTTATGTCAACGGC
 TGGCGCGTCAAGTAACTTGGCTTTTCCCGCACGGTATCCGCATGACACACACCC
 CGCAACGCTCTCGCTCCGCTGATTTGGGTTCCAAACAGTTTCCGCTCTCAGATTTGCGA
 AATCAACAAACGCAATTAAGAGTCATGATGTTGTTCAACAGATGGTGGCTTCCGCGC
 CGGACTGGACGACAGAAAAATCTGAGTGGCGCTTCCCAAGAACAGGCTTGGACTGTCT
 GGAATAATTCGGGCAAGCGCTCGCGGGCTTCCGCGCTCAACAGGTACGGGGCTGGCAAC
 CACACATTCGGCTTCTCAAAACATCCGATTTTCTTCCGAGGAGGAGGCGGAT
 GGGTTTCCCATCTGAAATCATCGCGGGCGGAGAGGCGCGCTGATTTATACCGGGCT
 GATCCACACCTTCCCCCGGGCGGGCGCAAAATGCTGGTTATGACATCGGCGGGGCTT
 GACAGAAATTTGTATCGGCTCGACGCTGAATCCCGACATACCGCAAGGCTTGGCTTGGG
 CTGGCTTAACCTACAGGCTGGCTTCTTCCAAACAAATACCGCGCAAGACTTCCAATC
 TGCATTTCCGCGCGCGCAAGAAATCAAGCGCTTCAAGCAAAATATGAGGCGCGAAGG
 TTGGGATTTGGCGTGGGCAATCGGGTTTGGGCAAAATCAATCGGAGCTGCTTGGCGC
 GAAATTCGCCACAGAGCGGACATTTACTTCAAGAGCATGGCGGCTTCCGCGAGGCT
 CTGAGAGCGGCTTGGCTCAAAAGGCGAAATTTGAJAACTCTGAACGCGAGACATCAG
 ACTTTTGGCGGGGACTTGGCTGATGATGGCGGCTTGGAGAAATGAAGCTCGACG
 GATGACGCTAACCAGGCGCGCTTGGCGGACGGCGCTTGTAGCAATTTGATCGGCGCGG
 TTTAAACGAGATATGCGGGCAACGCTTGGCGACTTCCAACACGCTACACGCTCAG
 CCTCAATCAGCGCAACGCGACCGCGGACGCGCGCAAACTTTATGACAGCCTCTGCGCA
 CGCTAAAAAGGTTACAGTCAAGAGCTTGGCTTGTGGCAACAGTATCTGGAGCGCGGCG
 CGCGCTGCAGCAAAATCGGTTTGGACATCGGCCAGCGGCTATCAACAGCATTCGGCGC
 CATCTCGCAAAATCGGCTTGGCTCAAGCAACGAGCAATCTGCGGCA
 ACTGGTCAATCGGCTCATCGCGGCAATGAAAAAATGAGCGCATCATCGGCACCAACGA
 AATGTTGGGATGTCGGCTTTGTCCCTGGCGCTTGGCGCATGTTCTGGCGTTTCCGCGCA
 AGACCTGTCTTCCCGAAAAATATGCAAGTTGCCACGGATACGGAAAGCTGGGGCTTCA
 CTTGGGATTTGACAGGGGATGGTGGAAAGGCAATCCCTGATTTGCCAGGCAATTTGAATA
 TGAAGGCTCCAATGGCAAAAAATCAATATGCGGCTTCAAGATGAGGCGGCTCTGAACCTT
 GCGGAACAAATGCGCTCAAACTCTTCCAGACGGCTTTGGCTGTGCGCAACATCCGGA
 TATCGCGGCAACGCTGATCAACAGGCTCAACGCGGCTTGGCTGATGAGGCTCAAC
 CAAANAAAGCGCTGAATATCTCAGCGGCTTGGCTTGGGTTAGCGGCGAGCGCATCC
 ATCAATTTGGCAAGGCAACAAATATTTGGCGCAATCTTCAATTTGTCTGGCGCTTCC
 TGAAGCTGTGCGGAGCTTTGTTCAACTATCTTGTAGCTGCTTCACTTACAGCTTCTTTC
 GCTTCAGTACACCTTCTCGGCACTTGGCTTGGCATCAGCGCGAGCATCTTGACTTTGG
 TCTTTCGCTTCTTGACGGGAGAGCGGCGAGACTTGGCGGCGAAGCGGAGTGTCTTTA
 ACATCGGACTCAAGCGCTTGAACCGGCTTCTTAACTCTCTTTTGGCTTCTTGGGAACAA
 GCTGGCAAGGACAGCGCATATGTCGGCAATCAATTAATTTGATGCTTTTGGCTCT
 TGAGTTCTGATTAAGGCTTTGCTTAAAAATCGGAGCTTTCATCAATCTGGCTGATTT
 TGGCCATCGACGGGAGAAACGGTTTCCGCTTTAGTAAAAACCATATATATTAATA
 TAAAGGTTTTTTTCTCGAACAATAAGCGGCATCAATGCCATATTGAACACGCTCGAATA
 ACTATTTTATGAACAGCTTCGGAATAATGTAAACATATCCCCCTCTTTTGAATTTCC
 CGACGGTGGGCACTTTTCTCGAGGGTTTGAATAACCAATATTTCCGGATGTCGG
 AATACCTCAATATGCGGGGCGGGAATAAAACCGGCTTGGCTGTGCGATTTCCAGAC
 ATAGCGTCCGTTTCGACGGGCGCATAGCGGCTTTGGCTGCTGATAGGGTTAGAGG
 GCGATCGCAACAGGTTGCTGCTGATTTTGGCGGCTTGGCGGCTTGGCGGCTTGGCGG
 TTTGGCAACAAAGTATGGACACGCGCTTTCTGCGCAACCTGGCGGACTGTCTTATC
 ATCGGTTTCCATCAATTTGGCCCTGACGGCTTCAAGTGGCGGGATGTTTGGCGATCAG
 TCGGATTAACATTTTGTTCGGCGAGCGCTTAACTCGGATTAACGATTTGTTTTCGGCTC
 GTTGGTTTGGCTTCTGCTGCTTTTGTCCCAATCCAAACCGGCAATGCGGATTTGTGAT
 ATATTTGACTTTGAAACCGGTTTGGCGGCTTTGTACCGGCTTTTGGCGCTTTTGGCGG
 GATTTTGGGATTTGGCGGCGGCAAGCAGCAGCGCGGCCAATTCGGAAGCAAGA
 TGTTTTCAGATCTGCTGCTTGTTCGAAGGCTTGGCGGCTTGGCGGCTTGGCGGCTTGGCGG
 AGCTTGGACGGCATCGGCTTCAATCAAGCGGCGATGCGGACGCTGCGCTACTTGT
 TCCAATATTCGCTGCTTCTTTACGCGCTTTGGCGGCGGCTGCGTCAAAATCTTCTG
 ATTTGCAAGGGTGGCGGCTGAGCTGTGTAGGCTTGGCGGCTTGGCGGCTTGGCGGCT
 TTGATTTTGGCGGCAAAAGTTTTTGGCTTCAACCGACCGCAAGCGCTCGGAAGCAT
 TCTGTAAATTCGACGCTTTCAGACGGCTTGGGAAGGCTTTGTAGATTTCAACAAATGG
 TTCTGCTGGGCTTCTCGCTCGGCTTCTTCAATTTGGGATATTTGTTAGAC
 GATTTTGGCTTCTGCTGCTTTTCCAAAGGGAATGGTGTTCGCTAGATTTGGAC
 ATTTTGGCTTGGCTTCAACCGCACAGAGATTCGAGCTTTTATCGATTTTCACTTGGCG
 AGGTTGAAGATTTCCGGAAGCGGCTTGGTGAAGCGGCGGATGCTGGCGGCTTCTG
 ACCTGTTGGATTTGTTCGGCGCGGACGGGCACTTGTGGCTTGAACATCAGAAATATG
 GCACTCATCAGATTCGATAACTCAACAAACCAATTTTCAACACGGAATCAGGCTTCTC
 TGGCGCTTCTGCTATTTGCTCGACGGCGGCTTGTAGGATCGGCGGCTTCAACAA
 CCTTGGCAGTGAAGAGTCAAGTCAAGTCAAGTCAATCTCACTCTGGGAGTGTGGCT
 TGGCGGTAAGAGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT
 GCTTGGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT
 CGGAGGAAGGAAGATTCGGTATCGAGTTTGGCGCGCGGCGGCGGCGGCGGCTG

Appendix A

-339-

GCGCCGAGCTAGTTGCCAGATCGCGGATGCCGCTGGTGTACGCCGCTCAGAACTCGT
TTTTTGGCTATAAAAATTCCTCTGCGGCATCAATCCGCGCTGAAAGGAAAAGATGTGCG
CGATTATACCGGATTTGCCACCTACATCGACGCCGACACAGACTTTTCGATATTAAAG
ATATAGTTATACACATTATTATACATTTTTATATACCTTTAAATCTCAATGATATATCGAAT
TAAATATAGAAUAACAGAAACAGAACTTGAGTTATTCACAAATTATGCACATATAGGCTT
CGACAGCGGCATTTTGAAAGGAAACAAATTCGATACGACAAATTAACGCCCAAAAT
CCAAACAGCCCTTCGAGAAGCTCAGAGTTTGGCGTTGGCTCGGGACGGCGATCTCGGA
AGCGGGCTTTGTGTAAAGCCCTCGCTTGACGACCAAAACAGCGGAGCGCGCGGCTGTG
GGCTATTCGGGGCGCGGATCGCGGATTCGAGGCGGATTTCTCGCCAGCCGGAATTCGAGCGGT
GTTGAACCTGATGCAAGGCTGCCACAAACGCGGATGCTATATTGCCAGCGAAT
TTTCTGCTGTGCTTGGTACAGCAGACGATGCGACCGGCAAAATTTGAAGAGACGCGG
CGCGACCGAACAAACATCAATGCCGCGATTGACGCGATACGAGGAGGACAAACCTGCA
CGATGCCAATTCGCGAAGCAACACGCGATGCTTGAARAAATATACGCTTGACCTGACCCA
GGCGCGCGCGGACGCAAACTTTGACCCGCTTATCGGCTGCTGACGACGAATTCGCGCGCG
GATTCGCTATTTCAGACCGCTACCAAAACACGCTGTGCTGATTTCGAGCGCGGCT
GGGTAAACCGCATTTTGAGGCTTGGCGCAAGTATGCTCAACGCGGAAGTACTGTA
ATCCGCTCGTAAACACGCTTGCCTGTTTGGATTTCGCGGCTTTGATTGCGCGCGCGAA
ATACCGCGCGCAATTTGAAGAACGCTTGAAGCGCTGTTGAACGATTTCGCGAAGACGA
CGGCAACACTCTGATTTTCATGTGAAATCCATCTTTTGGTGGCGCGCGGCAAAACCGA
CGCGCGGATGGACGCGGCATATGCTGAACCGCGCTTGGCACTGGCGAATTCGACTG
TATCGGCGGACGACTTTGGACGATATCCGCAATACATCGAAAGATGCGGCACTGGA
ACGCGCTTTCATATGAGAGTATGTCGACGACGCGGACGACGACGATCTGATTT
CGCGGTTTACAGGAGGCTTATGAATCCACCTAGGATGATGATTAACGACCTGCTAT
CGTTGCCGACGCGGATTGAGCGACCGCTACATTACGACCGCTTCTCGCCGATAAAGC
GATTGATTGATTGACGAAGCGCGCAGCGCTGCAAGTAGGAAAAGAAACCAAGCGGA
AGCAATGGCAAAATCGACCGCGCTTAACTCAGCTTCGGATGAAAGGCGACGCTTGA
AAAGAAAAAGACGATGCGCAGAAAAACGTTTGGACTATGACGAGGAATCAACGG
TCTGCAAAAGATATCCGCGATTAGACGAAATCTGGAAGCGGAAAGCAATTTTCGGA
CGGCTGCTGCTTAAATATAGAAACCAATTCGCAAAATCAAAATTCGAGCGAAJ
ACGCGAAAGGAGCTTCAAAATCATATGAGAGTTTTCGAGCTTTGGA
AAACAGCGCTGCGCGCGCAGACGCGGAGATCGGACGACCAAAACGCGCAACAACT
CTTGCGTAAATATGTCGCGCAGAGGAATTCGAGAGGTGGTTTCCGCTATGACCGGCT
TCCCGTATCCAAATGATGGAGGCGAACGCGCAAACTGCTGAAATGGAAGAGTATT
GCACCGCGCGCTGGTGGACAGGACGAAGCGCTGGTGGCGCTGCGACGCTATCGCGCG
GAGCGCTCGCGCTTCCGATCGAACAAGCTTACGCGAGCTTCTCTTCTTCTGGCGCC
GACGCGCGTGGTGAAGAACGATGTCGAAACCGCTGCGAGGCTTCTGTTTCGACAGGA
AGATCATCTGATGTCGGAATATATGACGATATGTCGAGAGCGCTGCGCGCT
AATCGCGCGCTTCCGCGCTATGCTGCTACGAGAGCGGCTACCTGACGCAACAT
GCGCGCAAAACCGTACAGCGTATCTGCTGACGAGAGTGAAGAAAGCCCATCCGATGT
GTTCAACATCTCTGCGCAAGTATTGGATGACGCGCGCTTGACCGACGCAAGGTGCGAC
CGTGACTTCAAAATACCGTTATCGTGATGACTTCCAATATTGGTAGCCAATATCCA
ACAAATGGGCATTACGATTACGAAGCGGTGAAGAGATTGTGATGGAGGATGTGAAGA
ACATTTCCGCCCGAAATGATCAACCGCATCGACGAGTGGTGTGTCACGAGCTGGA
TCGAGATATTTCGCAAGCTTCGAAATTCGCTCAAAAGCTTGAAGAACTTTGGA
AAACAAACCTTCGCTGCTGTTTCGATCGCGCATGAGCATCATGCCCAAGCGCG
TTTGACCCGATTACGCGGCATCCGCTCAACGCGCCATCCAGTCGGAATCGAATA
CCCGCTGGCAAAAGCCCTGTTGCGGAACTATGCGCGCGAAGCGAATCAGGGTGG
AGCGACGCGGACGACTGAAATTTGCGCTGATTCTGCTCGTGTGAAATGCGGCTG
AAACCGGATATTCGTTTCAGACGCGATTTTATCTCTCGGACAGCAACCGTCCCTCTA
TTGGCGGTAGGTTTCGAGGAATCTTCGACGCTGCCATCGCCTCTTAATCTGATGAC
GTAGGCGAGCTGACATATGCGGAAATGCTGGGCTGATCTGATTAACCCCTCTGCT
CACACGAGGCTTTTTCGCGACGCAAAATCGGAACGATTTCAATGCTATCGCGAT
ACGTACATTTCGGTATCGATTTTGGGAACATATACATCGGCCCATCGTTGACGCA
GGATACGCGGGAATCTGTTGACGAGTTCACACGCGCTGTTGGCGTGTTCGAAAGCGG
TCGCGCGGCAAAATGAATCTGTGATGCTGATAGCGGCCAATCGGCTCTGAATCG
GTGCTGCATCGCGTATTGGCACAGGCGCATAGACGAGGACATCAACACCTCGAT
GTAACCTTTTGCATGATGTTTGGCGCGTGTGAGCACCATCGACGCTTGGCGAATCGCG
TACCGGTGAGCTTTGGCAAAACGTTGAACGTTACGTCGAAAGGTTGGGGGCAAGCG
GGCGATGTGGTGTGCGCGCGCTATGAGCTGAAAGGCTGCTGATTAATCTGCGGCA
AATATCAAAACGCTGCTTGGCGCGCATGCGCGATTTCGCAAGAGATTTCGCTGTA
CACCCGCGCTGTGCGATTATGGGATTGATGACGACGATGGCTTTGGTTTGGCGGTGAT
TTTTGTTCCATATCGGCAAGGTTGGGGAACGAGCGCTTTCTTCGTCGACAGATAATG
GCGTACCGTACCGCGCGCAAGCGCTTGGCGCGCGCTCCACAGGAGATGTCGCGCGCGG
AATCAGGATTTCTGCGCGCTGTTGAGCAATGCTGCATAGACATGTAATCAGTCTGGA
CACCGCTTGGCAGATATAGCATCATCAACCGTAATATCGCGCAACCTTTGGTCTGAT
GTATGAAACATGCTGTTGGCGCGGATATGAGCGCTTATGAGTATGATGCTGCGA
ATGTCGAGCTTTCGATGACATCGACCAAGATTCTACGAGGCTCAAAAGCCAGCG
CGCAGGTTGCCGATATTGAGTTAAGGATTTTATGCGCTCTCTTCACATGAAAGGCG
TTTTTTGTGAACCGGCGCGGATGCTGTACACAGAGTGATCGAGCTTTTCGAGACTTGG
AAATTTATCCATGATGTGTTCCGTAATTTTGGGCAATGGTGGGATGACTCTTTTC
ACGCGGATTTAAGCATCAACCGAGATTTTCAGGCTTTTACCTGCGCTCTTTCGCGC
GTTGCTGACGCTTTTTCGCGCTATTCGCCAGTTATCGGATACCACTTGTCATACGCA
CAACCTGTTGTTGGGATTTTGGCAGACGCTGCGCAGCAATTCGTTACGCGCGCA
TCAGTTCGCGTTTTCGCGCGGATGGTCTCTTCTGCGCGCGGTACTTTAATATGA

Appendix A

-340-

CATAAGGCATGATCTTCTTCGCTTTAAAAATTGCTATCTTATCAAAAGTTGCCTGC
GCCCAACGTCGCCGTTCAATTTCTGAAAAATCAAACTGATATAGTGGATTACAAAAAT
CAGGACAAGGCGGACGAAAGCCGACAGCTACAGATATAGCGGAACCGATTCACTTGGTGC
TTCAGCACCTTAGAGAGTCGTTCTCTTGAGCTAAGCGAGGCAACCGCTACTGGTTT
TGTTAATCCACTATACAAAAAGACAGTTTCAGACAGCAATCCGCTCTTACACGATACC
TATTTTGTATTAACATAACAAAAATCTTAACCCACAGGACAAAGGCTGCAATGAG
AAACATTTGACATCTGCGCGCTTTCGCGCTTATTTTTCACATCGCGCCACGGCCAGC
GTCGCGTGAACATCGCCACACGACGCGGCGCAATCTTAAAGCGACTTGGCGTAC
GGCGAATTTCCGCACTGCCAACCTGCCCAAGACCGCGCTGCACATCTTAGCAAAACCG
ATGCAGTGGTTCGCAAAAGGCAAGGAAACATGTTCAACGGCGGACATCAAGAAATGCT
CAGTACCGAAGCAACCGCTCCGCTTAGGACGGCACTTACCTCGTCATCGCGGAATACG
CCTACTTTCTGGTCAAAAAACAAGCAGGCTGMAAACGCGGGCATCAAGAAATGCT
GAAGCAAGCTTATTCGCAACAAACCCGGAATCTGCGCAAAACATCGTCAAGCTCGGAC
GAAGCGCGGACAGCGCAATCATCAACAAACCGCTCGGCAAAACCTTGAAGATCTGCCG
CTGCAATCCGCCCAACTTACCTAGGAGCGGCAATCAAGTCCGCTTCTGTCG
GGCAACCGCTGCCCAATGCCACCGTTACGCCACCTTTGACGGCTTCGACACCAAGCAC
CGCAGCAAAACGCAAAAACCGAAGCACAGGCTTCTCGACAGCACAGACGACAAAGGC
GAAGTGGACATCATCCCTTGGCGCAGGCTTCTGGAAGCCCAATGTCGAACCAAAAAC
GACTTCCCGGATCAAGCGGTGTGCCAAAAACAGGCGAACTACTGCACTTAACTCTCCAA
ATCGGTCAATTCGCACTTAATCCCGCGGCAAAAAATGCCGCTGAAGGCTTCAGAGC
GACTTTTGTGTCAAACTCAATCAACCGCGGCGAGTTTCATCGCTTTTTCACAGCGG
GATACTCATGTGAAGCGCGTTGCCAATCGACATATCTTTCGCGCAAGTTCCA
TATATTCGCGGAACGCGCTCGCAAGGACGAGGTTCTTCTCTTGAATCTGCTCAACCT
CAATAATAGCTTTCGAGGTTTTCGACCCACTCGAATAGGAAACGACCAAGCGCGCGCA
GTTCCGCAAGATATAGGCAAGCAACATAGGCGGTTTTCGACGAGGATCAGCTCGGCTC
GGCGTACTCGGGCGCTTCGCGCTTCGACTACGATTTTCGCGGCGATTTACCGCGGT
TTCGCTCACTCGTGGTTTTCCAAGCGCAAGGGCGAGTACGTCACATCCAAAGCCAA
AGTTTCGCGGTTGGTATTTTTCGCGCAATCCGCGGCAATCGCTTGGTATGAAGGCTTTTC
TTGGAACCTTTTCAATCTTCAAACTCCGCTTGGTGGTATGAAGGCAATGAGCTTTTC
ATCAGTAGAAGCCCAACAACTTTCGCGGATGATGCGGATAACTCTGTGTGTA
ACCCACATACCGAAACCTTGAATGGCTAAGTGGCACCTTTCAGTCTTCGCCAGTT
TTCCAAGCTTCGAAGCGCGCGAGGTTTCAGCGGTGAACGGTAGCTTGGTACGCGGCA
AGAGCGCGCAATCAACCGGTTTTCGCGTAAATACGCGCGCGGAGATGTTTCAACAC
GTTTTCATAGCATCCACATCCACGACATAATTTGCCGTTGGTATTCACATCGGGGGC
GGGAATATCGATTTCTCGCAATCAGCGGGCAATCGCTTACGATAGCGCGCGGAT
CGCTTCAGGTCGCGCTGGATTAATCGCGGATCAAGGTAACTGCGGCTTTCGCGG
CGCTAGAGATATCGCAAGTATCACTCACTCACTCACTCACTCACTCACTCACTCACT
TTCGTCAAAATTCACATCGGATGGAAGCGCACCGCGCTTATAGCGCGCGCGCGGT
GTTGTGTTGCAAGCGTAGCGCGTGAAGCTTTGACCGTCTGCTGCTGAGTTTACGCGG
AAAATTGACTTCACACAGCGGGTTCGAGCTTTCAGGATTTCAAAACGCGCGGATCGGT
TTTCAGCGGTTCAGCGCGGTTTTCACCTGTTTCGCGCGATTTCAACAGGATTAGGGGT
TCTTTTCAGGGCTTCAGACATTTGCTTCTTTTCAAAAGAGAGGTTTCGAATGGA
ACAGCCATCAGGTCGCAATATACATCAATTTTCAGCAAAATGTAATAGCTGTAGTT
GGAATCGCGCGATTTGATTAATCTATATGTTTATTTCCAGAGCGCGCGAATCC
GTCGAAAAAGCGGACACATATCGAAAGCAAAATGTCANTTAATTAAGATATAG
AATCCTTTATTTTAAAAATTAATTCGAACGCGCGCGGATTTGCAACCCCTTCCG
ACTCGGTCGAAATCCGGAACACCGCGCGCAAAACCTGTTTCGATGTTAAACATCCA
TACATTAGAGGCTGTGCAACAGTGTAAAAATCACTTTCAACCCGACAGAAAAC
GGATTTAGATGAGGCCATCGAACACGCTCAAGCGCTGCTTCGATTTGGAAGCGCAC
TGTGGATCTCGCTCCCGACCTTCGCGCGCGCGCAGAGCGATGTCGAACCACTCGGTA
TGAACCGCTGCTGCGCAAGTGGTGAAGCATGTCGGGACCGGATCGGCAATGTTG
TTCGCGCGCTTCGCAACGACGCGGAGGCTTCGCGGAGCTTCGCGGATTCGCGGATG
GTTGCTATCTATGAATATCTACCGGACCATTTGAGGCTCTTCAACCGCCCTATTC
CGAAACCGAAGCTGGGCTGGCATGTTAATCTTTCGGGATCGCGCTCGCGCTGTTAC
CAACAAAACGAAATCTTGCCTTCGAGCTTCAAAACACCTGGGATCGCGGACTATT
TAGCTGATACTTCGCGCGGACAGCTGCGCGGAAAGAAACCGACCGCTCGCGCTGG
GCACCGCGCGAGGATTTGGGTATCGATGTTGCAAAACATGTTATGTCGCGGATCTCGG
CACAGCATCTTCGCGCGGACCGCGCGGCTGCTGAGCGTGGGCTTACTTCGGTTA
CGCGATATGAGAAACGCAACGCAAGAGCTGCGGAGGCTTCGCGGATTCGCGGAT
GCTGCCGAATTTACGAACACCTGCAACTCAGAAACAAAGAGATGAGCATTCGG
ACGCTCGGTTTTCGCGCTATGCGGCTGAAACCTGCCACGCGCAACCGCGCGCA
TGAACCGCGAAATCTCCTACGCGCGCGCGGATGGAATCTCTTCGCGCAAGAACTCA
GCCGATCGGTCTCAACCGCAATCTGCAACGCGACCGCGAAGCGAAGAGGATTCGAA
ACGCTGTTAAAGGATTTGCGGAACGCACTGGCAGTTCGGATTTGGGCTATGCCGAAGCT
ATATCGCGCAACAGGCGCAACAGCGGTCAATGAGCGTGAACAGGCTTTCGCGCAAC
AGGCGATGATGAACGCAACGCGCGGACCTTCGCGGAGCTTCGCGGATTCGCGGATTCG
CGCGCATAGCGGTTTTCGTAATAATTCAAACTCGCGCGCGGATTTAAAGAAAC
AAAAACAGGACCGCTTCTGCGCTATCGCGGTTTTCGCGGATACCTTCGAGCGGAT
TGAACATGCTCGGATGACGCGTGGGGAAGACTGTCGAATGAATCTTGAATCTTT
TTGATGACGCGGTAACTTACCTCATTTTCCAATTTTTCGATTTGAATAAATGTCG
GAACATCCGGAAGAAATCAACCACTCTTGAAGATGAACGCAAAACCGGTTTAC
CGTATGGGTCAGGATTCGCGGATTCATGCTGCTGCTTTCGCGGAGGCTATTCGCACT
GCTTTTTCTATCTGCTGTTTTCGCTTCTTCAATTCGAATTCGCGGATTCGCGGATTC
GACGGATCGCGGACCAATTCGCGGAGCTATCCCATGATAGCTTTTTCGCTGATTAAT
CCACTTCCCATTCCTCAAAATTTTTCGACACCACTTCAAAATACCTTCTTAAACA

Appendix A

-341-

GGTACACTATGACACACAAACGGCACTGCTCTGGCAGCAACTCATTATGTCCGAAGTGA
 TGATGCCGGGACACGCCCAATTTCAGCGGCCAAGCTACAGCGGCGGGCAACTCTCGTCTCTGCG
 TCGCAACAGTCCGCTATTCTCGCGCCAGCGCTTACAGCGGCCAATTATTCGTTACCCCTGT
 CGGTTGACAAAGCTCTGTTTAAAGAACCCATCAATGTCGGCGACCTGTTACTTCTCTACG
 CCAGCGTAAACTACAGCGGGGCTACCTCTATGAAATCGCATCCGTTGCGAAGCACAAA
 ACATCCGCTACGGGAGAAATCCGCCATCCACACAGCTGCTACTTTCACATCGTTTCCAGTGA
 AAGCGGCAACGCTGCTGCTCTGCTCGGAACTCTGACAGCGCCGCAAGCTGCG
 GCTTCCGAAAGCGCAAAAAGCGCAGAGCACTCAGCGCTCAAGCTCTCGAGAGCTGCTCT
 CGCGCTGCTGACGCGGAGTATGCGCTGTGAAGACAGCGACATCGCGCATCCGTTTCC
 ATTGCAAAACGGTGAATCAAGCAAAATATAGTGGATTAAATCAAAACAGTACGGCGTTG
 CCTCGCCTTAGCTCAAGAGAACATTTCTCAAGGTGCTGAAGACCAAGTGAATCGGT
 CCGTACTATCTGTACTGTCTCGCGCTTCGTGCGCTTGTCTGATTTTTGTATATCCACTA
 TACCAAAACAGATCAAAACAAATTTATATGCGCCATCCCTTCCGAATAATTTGAAGACAG
 ACCCGCAAAAACAAAATTCGCTCTGAJAATCTTCAGAGCAATCTCCACTGATT
 CAGCGCAAAAGTCGAAACCGCGATAGCTGTTCGGGTTAACCGGTTCCCGCTTTTGACGC
 ACCTCGAAATGAAGCTGCGTTCGGAAGCATCGTATTGCCCATCAAGCAACCTGCTGA
 CGCGCTTGACCTGCTGCGCCCTCGCGACCAAGCAATTTTGGTTGCGCGTATCGCGCT
 AGGAAAGAAAGATTATGCTGGATGATGACCAAGTTTCCGTATCCCTCAAACTGAACCG
 GCATAAACCACTTTCCGCTCAGCGCGCGCCAAACGGGCTGTCCCGCATTCGCGCAATA
 TCGACACCTCTGTTGTTGCGCGGAAATCGGCAACCACTTTACCTTTCGCTCGACGCTGC
 CAACAAATCGCGCGGACCGCAACCGCTCGGAGAGCGGAGCGCAGAGGATTCGCGGCG
 GCGCGCGCAACGCTTATTTTCGCGACGCGCGCGCGGCGGCTGCGCGCTGCGCTGCG
 GCGGTTTCGCGCGCGGTTTTCACAGGGTTTGACAGCGAGCGCGGTACGCGCGGCTGCT
 TCTACGCGCTGCGGTTTTGCGTGGCATATCTCGCGGTTTGACTTTTACAATCTGACCG
 ATGCTCAACATATTTGCGCTATCGCTTCCAGCGACGGAAATCGCTTGAAGATATGG
 TAGCGTTTGGAAATGTTGTAACCGTGTGCGCGCGCAATAAGTATGCTGCGCGCGTTA
 ATGTCGACGGGTGCGGACTGTACGGGCGGTTGCGCGCGAGCGGTTACGCGCGCGCTGCT
 TTTACGGCTCGGGTTTTGCGTGGCATATCTCGCGGTTTGACTTTTACAATCTGACGG
 ATGCTCAACATATGCTGATAGCTATGCTATGCTGCTGCTTTTGAAGATATG
 TAGCTTTTGGAAATGTTGTAACCGTGTGCGCGCGCAATAAGTATGCTGCGCGCGTTA
 ATGTCGACGGGTGCGGACTGTACGGGCGGTTGCGCGCGAGCGGTTACGCGCGCGCTGCT
 TTTACGGCTCGGGTTTTGCGTGGCATATCTCGCGGTTTGACTTTTACAATCTGACGG
 ATGCTCAACATATGCTGATAGCTATGCTATGCTGCTGCTTTTGAAGATATG
 TAGCTTTTGGAAATGTTGTAACCGTGTGCGCGCGCAATAAGTATGCTGCGCGCGTTG
 ATGTCGACGGGTGCGTGAAGAGGACGTATGTAACGGAACGGCAGTGCAGACGCGGA
 ACATAAGCAGGAGGCGTATTAACCGCGCGCTTTGACCGCGCGGCACATAAGCGCATCG
 CGCGAGGAGCGCGGCTGACGCGGTTGCTCCATAGGGTTTGTGTAATCGCGAAGAC
 GCGCGCTCTGCACTCAATTTGCTGCAATGACGAGGAGCGGCTGTTGGTGGCGCGCA
 CGCGCCACAGAGAGCGCAACGGGGTACAGCTGCGCAAAAGTGTGTTTGTTCACATA
 AGATAACCTTACAGATATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCT
 TTTCTCTCAAGCGCAAGCGCGAGCTGATGCTATGCTATGCTATGCTATGCTATGCT
 GAACCGCGACAGCTACAAATAGTACGGAACGATTACTTGTGCTTTCAGACCTTAGA
 GAATCGTTCTCTTTGAGCTAAGCGGAGCGACGCGTACTGTTTGTATATCCACTAT
 ATTTGATGAACCGCTCAGTCCGCTAGCGCAAGCGCGCTGTTTCCGCTGTCGGATAG
 GCGGTGAGTGCATTTCGACGCGGCTTACGGTANTGAACTGCGCGCATTCACGAA
 TCCGTTCCCTTCTCCGATCGGAACCTTCGCGACCGGTCTATCAATAAATCTGTTG
 CGCGCGGATTCGCGCGGGAATGAGCTTTCGCGCTGATGCTCTTCCGCAACCGCGG
 ATTTAAATGCGCGCATCTTCGCGCGCAAGCGCGGATTTGATGTTTCACAAAT
 GCGGACTCGCGCGGCTTTTGAATAATGCGCAACAAATGCCAAGTGCAGTGCCTGTCG
 GTCGCCCAATAGCGTCCGGAAGCTGTTTGAAGAAACGCCACGCGGGTATGCCATA
 AGGTAGGCTTCGGTTGCGCGCAACGCTCCCGAATAAAGCGTGTCTCCGCCATATTC
 GCGCGCGGTTTGAATGCCGAAAGACAAATCGCGCTGAAATCGAAATACAGACTGC
 CGATGTGATGCTAGTGGTGCCTGCGCTGCTGCTGATGATGAGAACCGCTTTGCGGCTGT
 TTCACCTGCAAAAGGCGCTTCGAGCTCAGCAATGCTGACCGCGCTGCTGCTGCTGCTG
 GCGCGCAACCGCTGCTGCAATTCGCTGACGCGCGCTGCTGCTGCTGCTGCTGCTGCTG
 TCGGAGCTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TTTCTCGGGCAATTTGGTGATTTTGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TTCAAACCGCTAGCGCTGGAATCGCAAAATCGCGACATCGGAGGATGTTTGCATATC
 TTCCATANTCAGCGCGGCAACCGTGTGAAATCGCATCTTCTCTCTGCTGCGGAGGTT
 GAGTTGCGGTGCGAGTTCCACATATTCCAACGCGCTTCCACCTGAGCTTCTATCGG
 ATTCGCTGACAGCGTGGTTCTTCTGCGCTGCAAAATCTCGGGGAACCTGCTGCGAT
 GTCTCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 CAAAGCAATANTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 GTGCGGACGACGAGCGGCTGGGCAATCCGCTCTGAATGTCGAGACGCGCTGTTTCCAG
 CAGTTGGGACGACGAGCTGTTTTTGTGATGAGCCAAAGGTTCTGTCAGCGCGGCTT
 ACCGACACGACGAGCGGCTGTGAGCGGCTGTTTGCAGTTGGGCACACTGTTCTCGCG
 GCTTTGGGAATGTCGACGCTTGTGATGTCGCGCGGTGGATCATCACCCCATATCGS
 GCGTTCGCGAGCGTACGACGCTGCTGATCATCGATTTTTCGTTTTCCTCAAAATCGCG
 GTCTCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 CAAAGCAATANTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 GTTCTGCTGCAAAATCGTTTAAACAAATCGATTAATAATGAGAACGCGATGCGCGGTA
 GRGTTAGCTTTTGGGAATGTGGAATGGAAGGCTTCGCAATCAGGCTGAAACGATCAT
 CAACAAAACCAAGCGACAGATCAACGAGGTAGGCTGCTGTCAGCAAACTGCTGCA
 GAGTTTCTGCTGCGAAGATCATACGCAATCGGACGACGACGCGCATCCATCGCACGAC
 GATATGCTGACCATCGCGCACCGCAATGACGGAATCGATGAGAAACAGGCAATCGAC
 TATCAGGATTTGCGGACGACGCGCAACCGGCGGCTGTTTTTGTGCTGCTGCGGAC
 GTTAACCGGCTTCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGG
 GAAATACCGCGCGGACATATCATGCTCTGCGGCAACGCGGAGCGCGCTGTTG
 GAAACGCGCTCGCTGAGCTGATGCTGCGGCAATAAAGCAAGCATATGATCGGAT

-342-

[illegible]

Appendix A

-343-

AAGCTGATATTCTATAAAGCTCCCCAATAAAATAGATATGAACAAACGGCCGTGATT
 CCAAGCTGGCGCAACGCCATCATATAAAGCGGACGGGCAACACACACCGCCGATACCGG
 AATTTACCTCGGATGAATCAATATCCGGATTGGCGGCCCTTCTTACCCCTCTTCGGA
 TGCCGCGCTTTTCTGACGATGCGCGCTGGAACCTGCTCCGCGCCGGAGGAATGTAAAT
 TTTTTCGAAATTCCAGTAAGAAACCGCTATCGGTGTGCTAATTGGGTAAATTCCTATT
 CGGCGTTTAAAGCTTTTGTGGCGCGCAATCCCTGCACGTGTTGATGGGGCGATAGCGACA
 AATCCCGCAAGCGCAGCTGTTTCACTACTGCTCAATCATTCAGACCTGGGTTCGGCGCA
 TGGCGGCAAGTGGCGCTGCGGCTGCGGCTTCCGCGCTACAGGATATCCGACGATCTGATG
 GATTATTCGTGATGAATCACTCAAAACCTCTCTCATTTGGGGCAATAGGTACTGGTCG
 GCTTAGCATCTCTTACCACTCTGGCGCTCAGCGGAGGCAAGACGTCAGCGCGATGGGA
 TGCTACCGCGCGGCATATCCGTTTACTGCATCGCTACCGCTTTTACAGCTCTCATCTCG
 CCAACCGCGTAATGGCGCTGATCTTGACCGCTGACTCCGGCAGAACGCGCACAGACG
 GCTTGGCATAGCTCCGACGCAAAAGCGGTATTGTTCGGACACCACTTTGCCGCAATTG
 CGCGCGCGCGGCTTTGGTGGTGGGTTTGGCGGCGCAATGGGTATCTTGGCGCGGTA
 CTGTGGATATCTCTCGCGCTCTATTGCCCGCGGCTACAGGATGATGGCTCTTGT
 TCTCTCTATGCGCGCGACGATAGCTTTGGGCGATATTGTGAACAGGAACTCGCGCA
 CTGTCCCGCGCGGTATTGCCCTGCATCGGTATTTGATGATTATGGTCATCATTTAGCGGG
 TGTTCGGCTGTATTGTGCTGAAGAAGCATTTGGTTCACGCGCTTGGGGTACGTTACCATTTG
 CACCAACTATGCGGATTGCGCTGTTTATGGGTATTTACACGCGTTATATCCGTCGCGGCA
 AATCTGGCAGATTTCCTATCGTCGGCTTATTTGCTGATGCTGGCGGTAATTACGGCG
 AAGATGTGGCTCAAAAGTTCATCGGGCATTTGGTTCGACCTTGACGGCATCGAGCTCACTT
 GCGGATATGATTATCCGCGTTTGTGCGCTCGGTATTCGCGGTATGGTTTGTGCTCAGCT
 CGCGCGCATATGCAAAATCGGCTGCGGCTGCGGCTTGGCTTGGGT
 TCGTCATCGCTCAATCCGCTTTCGCAACTCGCGCAACCCACTTTATCGAGCTGTGGG
 GTCCGCTATTCTCAGCGCATTTGCTCCACTTTGTTCATTACCATCGCTCGCGGTGGG
 TTTCCGGCTTCCACGCGCTGATTCTCTCCGCGACTACGCCGAAATGCTGGAACAGAA
 CCCACGCTCGCATGATCGGTACGGCGGTGTTGATGGAAAGTTTCGTAGCCATATATGG
 CACTTTCGCGCTCGCATGCTGCTGATCGCGGCTGTACTTCGCGATGAACAGCGCCAGCG
 CCCTGATCGGTAGCGGATCAATACGCGCGCGAAGTATGACCAACAGCTGCAATCTG
 CTGTGATGCGCGCGCTGCGCATCTGCTGCTGATGAGAGATGCGGCTGCGGCTTGTG
 CCGCTGCGCGCGCTGCGCCACCTCGAGTGCGATGCGATGCGACCAATTAGCGCCCTGGA
 TTCGCGCGAGCGCATGATGGCGTTTCTGATCACTTCGCCCTGTGTTTGAAGCGTTCTGT
 TCATCTGACCGCGCTGATGCGCGGTACGCGCTCGACGCTTTATGATTCAAGACTTTGG
 CGACGATCTTCTACAAACCTTTCGCGACACCGACTTCATCCCGCGCACTGATTGCGA
 CCTTCTTCGCGTGGCATTTGGGGCTACTTCTCTACACGGGCGTACCGACCGCTTGG
 GCGGATCACTGCTCTGGCGTTTGTTCGGCATCGCAACAAAGTCTGGGAGGGGTAG
 TCTGATGTTCTGCTGCTGCTGCTGATGAAGATGAACGGACGCTATGTCGGGCTGATGAA
 TACTGTTTCGCGCGCTGGCTACTGTTGCTGACTCTGACGCGCGCTCGCAAACTGT
 TCCACGCGACCGCGCATCACTCTCTTGGCCACGCGCGCAATACAGCGACGCAATTGG
 CTAAAAACGAATCTTTCGCGCTGCGAAGACATCGCGGAATGGCGCAATCATCTTCA
 ACGCAAGATTAAATGCGCGCTGACCATCTCTCTTGTGCGGTGTCTGATTGTGCGCG
 CGTACGCTTTCGTACCGCGCTCAAGCACGCAAGCTCGCTGGCGACGCGCAAGAA
 TCCCGCGGTTTACCGCGACGCGCAACAGCGCGGAGGCAAGATGAGCATAACTGCGCG
 TCTTGGTGGAAACCATCAAGCTTACGCGCAATGATGCGCGCGCTGCGGATTAAGAA
 AACTAGCTGCGACGCGCAAGCAATATCCCAACGCGCGCTGATGCAAGCTGCGA
 TTTCAAGACTATTTCGCGCAACCGCGCTGGCGCGCAACGCGGACGCTGCTTTAAGCG
 TCTTTGAACAAATTCCTCTGAACGCGCTTACAGCGAATTTTATAATATAGTGGAT
 TAACAAAAATCAGGACAGCGGACGAAGCGCGAGACAGTACAAATAGTACGAACCGACT
 CACTTGGTCTTACGACCTTAGAGATCTGTCTCTTGGAGTAAAGCGAGACACGCGG
 TACTGGTTTGTGTTAATCCGCTATACACGATGAATCTTCGCAATATCTGTTTATCGAC
 CTCATTTTACGAAATTCGGGATCGCGATCGCGCTTTGTGCTTTTCCATCTTCAACCACT
 GTAAATCTCAAGACAGTACGCGCTGCGGCTGCGGCTTGTGCTGCTTTCGCTGCGGAT
 TTTGACAAAGATTGAAATCAATTTCTATGACCTTAAATTTAATCTGATCTCAACCT
 TTTCACTTGGAGCACCAATTTATCGGATGTCCCTTGCATAAACAATTTTCCGATA
 CGCGCGCCATTTCAACCGCAACCCAAAGCTATGAAAACTCATCGCTTCAACAAAC
 CCTATGCGCTTATCTGCCAATTTTCAACGCGCAAAAAACCAAAAGCTCAAGACTTTA
 TCAATCTTCCGCGCTTACCCGCGCGGACGCGGTGACACCGGACAGCGAGGCGCTGCTG
 TGCTGACGCGACCGCGCGCTTACGCAAAATACCGACCGCAATCAACACGCTTA
 AGCATCTGCGCGCGGCTGCGGCGGACGAGCGGATGCGAGCGTAAAG
 AAGGATAGACTAGCGGCTTGTGTAACCGCTCGCGACGATCCGCTTTGAAACAG
 GAGAAGCATGCTTATGGAGGCGATCCCGCGCATACGCGTCCGCAAAACCGTTCGG
 ATTTTGGATTGAATACCATTTCTGAGGCGCAAAACCGCGAAGTCAGCGGAATACGCG
 CCAAGCGCGCTATCCCTGCGCTGCTGTGATCAGAGTGGCAAGCGCGAGCTGAAACTGT
 TTGATTGGATTAAACCCGCGGCAATGGCATACGCGCGCTTAAACCATATACGCTT
 TATCTCATCATTTCCACAAAGTGGGAATCCGGAATTTATAGTGGAATTAACAAATATCA
 AGCAAGGCGACGAGTACGACAGTACAGATGATGCGAGCGCTGATCTGGTGGT
 CAGCACTTAGAGATGCTCTTCTGAGTAAAGCGAGGCAAGCGCTACTGCTTTTGTG
 TTAATCCGCTATTTCCGCCATCTTAGATTACAGCATACACGGGTATTAAAGGA
 TGCGGAACCGCTCATTCGCGCACTTTTCGTCATTCCGCGCAGGCGGAATCTAGAATC
 TCGGACTTTCAGATAACTTTGAATATGCTGTGTTTCAAGCTAGATTCCGCGCTGCG
 GCGGGAATGACGATTCATCCGACGGAACCTGCACACGCTCATTTCTACGAACATACA
 TCCGCTCAATTCACCAAGGATGGGAATCGAAGCTGAATCTGAAAGAACCGTTTATC
 CGATAGTTTTCGTACCGACGACGATGATTCCGCGCTGCGCGGGAATGACGATCATAA
 GTTTCCGCAATTTGACGATGAACCGAACTGACGACGCTGACGCTGACGCTGACGCT
 TCCACGAAAGTGGGATCTAGAAATGAAGAACACGCGCATTTATCGGAATACTCGAA

Appendix A

-344-

ACCGAACCGACTAGATTCCCGCCTGCGGGGAATGACGGCTGCAGATGCCCGACGGCTTT
TATAGCGGATTATAAAAAATCAGGACAGCGCGGACGCACAGACGATACAAACACTACG
GAACCGATTACCTGGTGCTTCAGCACTTAGAGAACTGTTCTCTTTGAGCTAAAGCGAG
ACAACCGCTGTACTGGTTTTGTTTATCCCACTATAAAATCTCAATTGAAATCTTCAGACGG
TATATCAAAATTTACAGTTTTTAAATGTTTATGCGCGCTGAAAAAAATCTAGTATATATTC
CTAATTGTCTGACTGTTTATTGTTGAGGAAAAATATGAGATCTTCCTTTCCGGTTGAAGCCG
ATTGTTGTTTTACTCTATGGGTGTACGCTATATCATTTATAGTTATGCGGAAGATGCAAGG
CGCGCGGGCAGCGAGGCGAGATACAGTTTGGAAAGATGTCAGCTCAGCGAGCGAGCG
GTACCGGAAGGACCAAAAGCTTTACGACGGCTGTCGCGATCGACCTGTCAGATAT
TTCAAATCAGCGAAACCTCAGACACTCTGACGAGCATCCCGGTGCTTTACACAG
CAAGATAAAAGCTGGGCAATTGTGCTTTGAATATTTCCGCGGCAGCGGGTTCGGCGGG
GTCAATACGATGTGGGAGCGCATACGACAGACTTTTATTCGACTCTACCGATCGCGGC
AGGGCAGCGGCTTCATCTCAATTGCGTGATCTGTCGACAGCAATTTTATTCGGCAGCTG
GATGTCGTCARAGCGAGCTTCAGCGGCTGGCGAGGCATCAACAGCTTTCGCGGTTGGCGG
AATCTGCGGACTTTAGCGGTGGATGACGTGCTGTCAGGCGAATATATCTACGGCTGCTG
CTAAAGGCTTCAGCGCACCAATTACAGAAAGGTAATGCGAATGGCGGATGATGTCG
CGCAATGGCTGGAAGCGAGCACTCTGTGGCTGTCTTACGGGACAGACAGCGGACG
GTGCGGCAAAATTACCGCGTGGCGCGGGCGGGCGGACGACATCGGAAATTTTGGCGGGGAA
TATTTGGAAAGCGCGCAAGCAGGATATTTGTACAAGAGGGTGCCTTGAATTCATTTCC
GACAGCGGAAATGGGAGCGGATTTACAAAGCGCAACGTGGAATACAGCCGATATAAA
AATTAACAACCAAGAACTACAAAAATACATCGAAGAGCATGACAAAAGCTGGCGGAA
AACCTGGCAGCGCAATACGACATACCCCATCGATCTCGCTGAGCTTAGGACAGCAATGCG
CAGGCAATGCTTTAAATGGGAATGACGGCTTCAATTAATACAGCGCAATTT
CGCGATTTAAACCAAAATGGCGGCAAAATCATCAACGCAATTCATCGATTCAT
TACGTTTTGCTTTGAACCGGTATACCAACCTCAATCTGACCGGACGATCAATTCGGCG
AGGCAGAAATATCCGAAGGGTCAAGTTTACAGGCTGGGGGCTTTAAAGGATTTTGAA
ACCTACAACAGCGGAAATCTCTGACCTCAACACACAGCGCACTTCGCGTGCCTCGC
GAAACCGAGTTCGAACCACTTTGGGCTCAATTTTCCACAAGCAATACGGCAAAAC
CGCTTTCCCTGAAGAAATGGGGCTGTTTTCGACGGTCTGATCAGGACACAGGGCTTTAT
TCTATTGCGGGCGGTTAAGCGGATAAAGGGCTGCTGCCCAAAATACCACTATGTC
CAACGGCGGCGGATGCAAGGCTTTCAACAGCTTCATGTCGGCTGCAAAAGAA
ATTACCGCTTAAATCAGACCACAATACCTCGGTCACCTGCTTCGGCGGCAATATACG
GGCTATTACGGCTCGGATGACGAATTTAAGCGGCATTGGGAGAAACTCGCCGACATAC
AAGAACAATTCGAACCGGAGCTGCGGGATTATGAACCGGATTGAAAAATACGGCAAA
AAGCGCGCAACACCAATCTGCTGAGCATTAGTGGGACTTCGGCGATTATTTCTGCGG
TTCGGGCACTTATTCGCGCAACACCGGTATGCGCAACGATCCAGAAATGATTTTCCCAA
ATGCGGCACTCTCGGCTTCACACGCTCTTAAACAGAGGCGGCAACACTTGCACATTT
GCTTCCAACTACTCTCAAAAGGATGTAAACAGAGGCTTCAATAGGATTTAACTG
TCTGGCTTACCGAGCGCATGACACTACATCCCAACGTTTACGGGAATGCTGGGAT
TTGAACGGGGATATTCGAGCTGGGTGACGAGCAGCGGGCTTGCTACACCATCAACAT
CGCAATTTCAAGAGCAAGGTGCACAAACAGGTTTGTAGTTGGAGCTGAATTACGATTAT
GGCGTTTTTTGACCAACCTTTCTTACGGCTATCAAAAGACGACGCAACCGCAACTTC
AGCGATGCGAGGGAATCGCCCAACAAATGCGTCCAAAGAGACCACTCAAAACAGGTTAT
GGGTTGACAGGGTTTCGCGCTCGCGGAGATTACGAGCTTTGGAAGTCGATCGCG
TGGTTGGGACAAACCACTTTGGCGGCGGATGCTATTTCGCAAGGCTTCGCG
AGCGGCTGAAGACGCTTATATGACGGCAACCAAGGGGAAATCACAGATTTCCG
CAACTGGGCAAGCGTTCATCAAAACAAACGAACTCTTCCCGGCGAGCTTTGATTTT
GATTTTACGCGCTTACGAGCGGAAGAAAACCTTATTTTCGCGCGGAGTCAAAAAT
CTGTTGCGACAGCGCTTATATGATCGCTGGATGGGCAATGATCGGCAACGAGCGT
TATTAACGCTCGTTGACCGGAAGACAGGACGAAGCTGATACGTGATGCTGATATAA
ACGTTGTGCAACGCAAAATACGGCGGCACAAAGCAAAAGCGTATTGACCAATTTGCAAGC
GGAAGCACTTTTGTAGTACGATGACATCAAGTTTAAAGGCAAGCGGCTGATTTGAGA
AAGCGCAATGCTGCAAGAGGCTTCAGAGCGCAATTTGTTCCCGCAACGAACTG
TCCGCGAAGCTATCGCAATCCGTTTATGCAATCGGCACTCAAGGAAATTCATTTG
ATTCCACGCGAGGAGCGGCTTTGATTTCCGTTATTTTGGTTGTTTCGGGTAATTT
ATGAGCTGCTATTCGCGCAAGGAGGGAATCAGTTTTTAAAGTTTCAGCCATTTCCGAT
AAATTCCTGTGGCTTAGCTTTCGGGATTCCTATCTGCTGAGATGACGTGGTGAGGT
TTCGCTACGGATGATGCTGCTATTCGCGCGAGCGGGGAATCAGACGCTTCGGTTTCGG
TTTTTTGGTATGTCGCGCAATTAATTTAGATTTCCCATTTCTGCGGAATGAGCG
CGAGGCTGTTTTCGCGCAATTAATTTAGCGGCAATCAATTCGCAATTTCCGATTTCCG
AGCGCGGATGACCAATCAATGCTAGGCAATTTATCGGAATGACGAATTCGAATTCAAA
AACTAGATTCCGACTTCTGCGGATGACGTGGTGGAGGTTTCGATGATGATGATTCGT
CATTCGCGCGAGCGGGAATCTAGTCTGCTGTTGTTTGGTTTTTGGCTAATGCGCGCA
ACATTAATTTCTAGATTCCCACTTTCTGCGGATGACGCGGAGCGGTTGCTGTTTTTC
CCAATTAATGCGCCCCAACCATAAACTCGTCAATTCGCGCGAGCGGGAATCTAGTCGT
TCGCTTTCGTTTTTGGCTAGTGGCGCAATTAATTTCTAGATTTCCCACTTTTCGTCG
GGAATGCGCGGCTGCTGATTTTCCATTAATTTCCCAATTAATTCGCAATTTCCGTCG
ATTTCGCGCGAGCGGCAATTTAGCAATTTCAACGCTTAAGCAATTTACGAATTCAGTG
AACTCAAAAACCTGGATTCCTCTTTCGCGGGAATGACGTAGTGCAGGTTTCCGCTACGG
ATGGATTCGTATTTCCGCGCAAGCGGGAATCTAGACATTCATGCTAAGGCAATTTATC
GGAATGATGATGAATCAAAAACCTGGATTCGCGCTTTCGCGGGAATGACGCGATAGAG
TTTCAAAATTTATCTAATAGCTGAATCAACGCTACGCGACTGATTCGCGCTGAGCGGGA
TGACGAAGTGGAGTTACCGGAACTTAAACAGCGGAACCGGACGAATCGATTTCCCA
CTTCGTTGGGAATGAGGAATGTAGGTTGCTGGGAATGAGGATGAGGTTTCCGATG
ATGGATTCGCAATTCGCGCGAGCGGGAATCTAGACATTCACGCTAAGGCAATTTATC

Appendix A

-345-

GGAATGACTGAAACTCAAAAACCTGGATTCCCACTTTTGTGGGAATGACGCGATTAGAG
 TTTCAAAATTTATTCTAAATAGCTGAACTCAACGCGACTGGATTCCCGGCTGAGCGGGAA
 TGACGAATTTACGTTGCTGTTTGTGGTTTCTGTTTGTGAAATATGGGATTGAG
 CTTGTGGGTATTACCGGAAAAACAGAAACCGCTCCGCGCTCATTCCGCGCAGGCGGG
 AATCTAGTCGCTGCGTTGCGTTTGTGGCTAGTGCGCGAACATTAATTTGTAGATT
 CCCACTTTTCGTGGGAATGACGGGATGTATGTGGATTACAAAACCACTACCGGGTGGC
 CTCGCTTACGTTACGACGAAGATGTTCTAGGCTGCTAGAGCAACGATGATCGGTTG
 CGTACTATTGTACTGCTGCGCGCTCTGCTGCGCTTGCTGCTGATTTTGTAACTCACTAT
 AATTTAATCCACTATATTTTTGTCCAAAGTCAAAATATGCGGCTCGAACATTCCGGC
 GGCAGACAAAACGGCACTGCCGATAAAGGCGAGTGCCTGTGCGTTTCAACCGTGAAA
 CATCAGCCCAATTAAGAGGCTTTATCGAATACCTCGTTGCCAGTCCATGTATTTTCA
 TCAATCAATACGGAACTTTGATTTCGGAGGTGGAATCATTTGATGTGTGATACCTCT
 TCGCGAGCGTGCGAGATTTTGGGGGCTACACGCGCTGCGAACGCATACCCCAACCG
 ACTCGGAGACTTACGATACCTGTCTGCGCCACAATGAGCGCGCGGATGCTGTCT
 TGGGTTCCGCGACGATTTCCAAGCTGCTGTATCTCCGCGCGGATCGGTAAGGAA
 AATCGGTTGCGCTTCTGCTGCCACATTTTGGATAATCATATGACTTTCATGTTGGCA
 TCGGCAACCGCGCTAAAATCTGATAGGCGACGCCAGTTTGTGGGTAGGCGCGCGACG
 TTGATCGGGCTTGGTTTATCGAATGCGATACCGGTTACGGAGCTCTTCCATGTTG
 TCGTCTCTTCAGAGGTAATTAAGTGCCATTGCGCGGCTTTCGACGCTGCTCAGTAG
 CGCAGCGCACTTTGATTTCGCGGGAATTTACTGAAACGGATTTCGAAATCTTGAA
 CGAGGTTTGGCACTTCGATCTTCTTCAATCAACGTTATCATGCGCGGCTGTG
 GGTACGCGCGCGGCTGCTGTTTAAGCGGCTTACGCTCATATGATATAGATTTGGCACTG
 TCGGCTTTGAGCGCGCGCGCAACGCGCGACGCGGAAGTTCGGAACCGCGCTGCGAGC
 GTGGAATATCGGCTTCACTGCTGATGCTTGGAGCGCGCAACGATGACGACTTGGGG
 GCGGTAAAGTTCGCGAGGCACTTTTGTGCTAATGATGCTTTCGATGCGGGCTTTGTGTGG
 GCGGTATCGGTTTGAAGGCGCACTGCCAGCTGTGTAGCTTTTGGCTTCCACGCGATG
 TCTTTCATGCGCATCGCAAAAGGCCGATGTTACTGTTGCGCGGTAGCTAAGACGAGC
 TCCAGCTTGGCACTTCGAGTACTTCTGCACTTTGCGCGGAGTGCAGACGATCGGTG
 GTTTCGCGCTTCTGCACTGCACTGATGATGCTGCTGCTTTCGCGCGCGGCTGCGGCTG
 GCGAGGCTTTGCGTAGGTTTGTAGTGGTTTCGCGGAGCTTACTGATGTCGCGCGAT
 TTAATGACGATTACCGCATGTTCTGCTGCTTCTTGTGGGGTTGTCGGGAGCTTGGTT
 TCGTGAAAGGGGTTATTATTACTATTTTTACATGGAATCAAGAACGCACTCGGCTT
 TCCGCGCTCGGCTTTCAGAGCGCTCAGCGAAAACCTTCTTTCAGATTGTGACAAJAJ
 TCGCGCTCGAACGGTTTTCAGAGCGCATCGGAGCAACATCAGGCGCGCGCAACGAT
 TGTGTGTTGTGACAGAGTTCGCTATGCTTTTGGCGGAGTCAACAGTTTGTGCGAA
 TCTGCTCAAACTCTGCGCGGCTGCGGCTGTTTTCGATGATTTTCGGA
 TCGGCTCATGACGATTTTCACTACACTCTGCGAACCGGAGTCTTCGGAATCAAAATC
 CAAAAGCGCGCGCGCTTCACTAGCTTCTGACACGCGCGAACGGCTTCGCGGATGGG
 GTTTTCACTCAAAATCGCGCTGCAACAGTTTGGCGCGCGGATTGTCAGCGCGACAAJ
 CGCACCGGTAAATGAAAGCGGTGCGCGCTACCGCGCTTCTGCTGAATCACTCGAGTCAAT
 CAAGATTTCGTGTTACCGAGTTTTCATATCCAGACCGCGCGCAGGGAACGCGCGAT
 CAACCGTTGGATTGTTGTGTGCGCGCGGAGCTGTTTTCGCGCGGAAGCTTCGCGGAGAT
 CCGGGAAGCAGTTGAGCGAGCGAGCATCCGTTTTCGCGGCTTTCGCGAGCTTGGTTTTT
 ACCGCGCAAGAAAGCGCGGAGGTTTCTATCATGAGAGCGGTATCAAACTTCTGAT
 CGCGATTCAATAAGCGACGAACCGCTGCTGATGCGCGAGGAATCAGGCGGATTTGAT
 ATCGCGCAGGCTGTGCGCGCGCGCGGAGATCGGGATGTAATCAGGCACTTCCCTCCCG
 TTAATAACAGATTAATAAAGGCTTAAATATGAAATACATTTAAGGCTTCAAAAC
 TGAATAATCTCAGCGCTTCTCGGCTTGTCTCGGATTAATCAAAAGCGCGAGGTGGCTTG
 GCGCATACCGTTTCGCGAAAACTGCCATTAAAGGTGCATCAGCGCGGTACGTCGCGT
 GGTACCCACACAGAGAGGTGGGCACTTTTATCGGCAATCAACCAATCTCTGGC
 CATTTACGCGCACTATTCGCAACGACGCGTGTGTTTTCAGACAG
 TCTTCGCGGCTGCGCTTCCGCGCGCACTCAAACTTCTGCTTTCGCGCACGCGCGCGC
 TCTGAGCTTCTGTTGCAAAAAATTCGGGGCGAGTGCCATATATTGCGAGGATTTGGC
 AACGTGACCAAAAGTAGGCGCGCACGTTGACCGCGCAAGCTCGCGGATGTTTGAG
 GGCATTGATGAGCTTTCAGTCCGCTCAACGGCAACCAAAATGTTGTACATATGTA
 TTTCTCTTTTCAGCGCCTCGCGGCTGCTTGTGCGATGGGCGAGGACAGATTGCG
 CTGTTTCATTATAGACCGCGCGTGGGCTTATACAAAGCGCGAACCGCGGCGCTTT
 CAGATATATGATGAGGATGATGAGGATGATTTTTCGCGCTTTCGCACTT
 TGTATTGACGAATCTTCGAGATTGCGACATGTGCGACACGCTTTGACCTTTCGCGA
 CGCTTCGCGGCACTCGCAGACTCTACGAGAGCTCTGCTTGGCGCACTTTTCAACGGCA
 CAGCTCTGCTAGTCCGCTGCGCGGTGCTGCGGTGTGGCGGTCGAGCTTTGGCGCGG
 ACGGCACTGAGAGCTTTGACTTTGATTGATTGGACACGTTGCGGAATGGAATGTCAAC
 CGCACGCTGCACGCGCTGACCGCGCACTTCGCAAAAGCAAAAGTTACCGCTTTCGCGGAA
 CGCATACACAAATTAATCGCAATGCGGAAGTGTGTAATTAAGGATTCGTTACGGGAA
 GCAATTTGCGGATATTCGGAAGAAAGTTGATGATGATGTCGCGCGAGTACGACGCA
 TGTGCGGTCAAGAGCAATGCGCGCTTATTTGTGGAGCAACCAAGTATGATGCTGCTC
 AGCGCGCGCGCGGCGCAAAAAATCCGCGCTTAATCAAAACCGCGGATTTAGCGCGC
 GTAACCCACGACCGCGGTGCTTGCACACTGCGCTACACTTCGGAAGACGTACGGATT
 AGCGCGGATACGAAGCAAAATGCGCGTGCCTTGCCTGTATTGCAACGAAAATATCGTG
 CGCGCGAGCTTAGGGAGGCTTGTTCGCGAGATGCGCGCTCCGAAGGCTTGTGTCGCGC
 GGTACGCTGACGAGCATGCTGTTACCGCTTCTGTCGGGCTATTGCGCGACATGAGCGGCA
 GTGACACATCTCGAGCAAAAAATAGAGCAATCGGCTTGAACACAGGATTCAGACGGCT
 TGTGACACATCTATTAGACACAAAGGATACGAGGATTAAGATTAAGATTAAGATTA
 ATATGATTCTTCAATAATATACCAAGTATCGGAGAGCATTTAATGGAATTCGTTAATA
 ATTTAGTTATTTTGTGATTTTAACTAATGCTTATTCGGATATTTTGTAGTATATG

Appendix A

-346-

GTATATACCATAGATACGTTATCGCAAAATATGTAICTAAGAACAAGTTTATATTAT
 TAGTGGTAATCTTTGCGATGATGTAATACATATATGCCGTTATCTTGACCAACAAAAG
 TAGCTTATTATTGATAGATGAACAATGTAATCTTATGTTATCTATCATCAAGAAGATTATG
 GTATAAACCCTCCCACTATCGGAGAATTACGCGAGAAAATATTTGTTAGATTTCAGG
 TAAGAGCTAAAAATTACGCTGAATTAATCTATGGAAGATGATATCAATTAGTAAAAAAA
 TTTGGGGGATAAAATTATCAATTATGGGCTGCGTACCTGTAATATACGGTATATGATATA
 ATATTGAAGTAAAGAGATGACGGTATATAGATGATGATGATGATGATGATGATGATGAT
 CAAGAAGCTTAAATTACAGACTTTATATTATTAATGAAGGTTTAGCAAGATGCGCTCA
 AAATATAGGGCGCATCAATCGAATTGCGGAAGACAACAGCTACGATGAACGTTTCAAGGA
 TTTGAAAAAAGAAATCCATAGGCTATCTGAACCGGATCCCGGTTTGGTGCCGACTACCT
 GAAGGCGGCATCAAGCTGTCGGTTGAGAAAACAACATCAGCATGCGCTCAAAACCGTAT
 TCACAACCTGCTCTTTTCAAAACATTGCGATTAAAGCGGTTATAATCGCTGTAAC
 ATCTGCCCGACACATATACGTGAATGTCGGGAGATTGTTTCTTTTGTAACCTTATAT
 TAAATCCACTTTCCGATTCACGATCGCGCCCTATCTGCCCATCTGCAACCTCGGA
 GCACACTGCGCATGGGATTGCGGCAACCCCTTACGAGTTTGCCCGAGATTGTTTAT
 TCCGCCGATGCAATGAAAGTCGATTGGGCGAGCTTCCAAGGCCCTTGGATCTACTGCT
 GTATCTGATCGCAACAGAATATCGAGCTACTGGATATTCGATGTTGAAGATTACCGA
 GCAGTATCTGCACTACATCGCCCAATGAAACCTACAGTTTGAATTGGCGGGGAATA
 TCTTTTGTATGGAGCAATCGTGAATTGAATCAAACTGCGGCTGCTGCTGCCGCGTACCGA
 AACGCTCGAAGAGAGAAGCCGACCCGCTGCGCGAGTTGGTGCGCGCTGCTGCTGCTTGA
 CGAACAGATGAGCTGCGCGCGAGGTTTGGCGCGCTGCCCGCGAGCGAGGATT
 CGCGTGGGCTTACGCTGCGCAAAATCCGCTGAAACAGCTGCGCGAGCTTATAT
 TACCGACTTGACCGAAGCGTGGCTGGGTAATTTGCTCGGGCAAAACACACGCGGACCGA
 CGAAGTAATCAAAGAACCATCTCGTGGCGGCGCAATGACGGCAATCTGCGCGGTT
 GAACGGACACCGGATTCAGGTTTACGACCTGTTCAATCCCAACAGGCGCGGCTTGA
 CGTGCTGCTCAACTTCATCGCACTGTTGGAGCTTGCARAAGAGGATTGGTCGAATCGT
 CGAGGAAGACGGTTTCGGAGAATCGAATCAGCTCAATCATGAGGGGCGGCTTACGA
 CGGCAATTCGGGACGAGGCGGCGCGATGTTTCAATACGCCCCACAGCGGCCACGA
 ABAATCGGGAAGACGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 ACAAAATTCACATGCTGCAAGCGGTTGTCGACCAAGTTTCCGAGAGCGACAGCTTTACG
 AATTCCGCTGCGGCAACGCTGACCGCTCTATCGGCTTGGCGCATCAGGGAAGACTGG
 AAGCGGAATCTGACGCGCTCTGCCAACTACGCTTCAACGACGAGAACTCGGCTATCTGC
 GCTCCGCTGCTTCAATTAAGCGACTTTGTGATTTCTCGAATCTTTCAGCTCAAC
 CGCGCTTTGTCGAATCGGCACAGATGAAGAGCTGCTGAACATCGGATCGCAAGCTC
 CGATGATACAGGAGATGTTTGAATCTGCTTCCGCTGCGATGTCACAGCAATTTACT
 TCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGCGCGCTTCAAAAGAAATCGCGCGGCCACAAACCGCGAGAACCGGCTTCTGATTT
 CCGACTTCGGGACGCGCGCGCTGACAGCTCGGTTGGCAGGAACAGCTATCCGCAACCC
 TGCTTGAAGCGCGCCCGGCACTGTCAGCGGCGACGCAATGCTTTCTCGCAAAAAC
 TCGGCATCACCCCATCGGCACATGGCGCAGAGTTCTCGAGGCAATTCAGGCGCTCG
 ACGTACGCTGCGGAATTTCCAAAGCGCGCGCTCGAAGCTGGGTGCAACATACCGGG
 GCGATTGGGCGTTGCCCTGACCGAGCTGGTGGATGATGATGCTTCCGCGGATTTTCG
 ACCTCTATTTCGCGAACTTTTCAGCGGCTGCGCGCAGCAGCGCGGCGCTTGTGTT
 GGGCGCAAGCTTACCGCGCTTTCGAAGCTCAAAATCGCAAGCGCGAGCGCAAGCAATG
 TGACCTTCTCGGACGGCTGACATCGAACGCTTTGGGCAATTCGCACAATTTTCAAAG
 ACCGCTTCAAAACCGGCTTGGCATCGGCAACCACTCACCACAGATATGGGCGATACGC
 CCTTGAATATGCTTGAAGCTGGTGAATGCAAGGGGCACTCGCTGCGCAAGCTGTCGG
 ACTCTCGGGCAAAACCATGACCAACACAGACGATCTTCTCGGCTACCTGCGCAAGTGT
 TCGAGCTACCGGAACCGAAGCGCGTGAACCGCGAGAAGAGCGCAATTCCTGTTTC
 TCGCGGATAAAATCTTTAAATACGCGCTGATGTAATTAACGGAAGAGCCCAAGCTC
 ATGAATCTACATCAAGCGCTGACGAGAGCGCGCGCGCTTTCGCGCGAGGATC
 GCGGACAGCGCTATTGTTTTCAGCGCAACAAACGCGAAGCAGGCGGATTCCAATC
 AACGGCTGATGGGTGCGGCGAAGAGCGCAACAAACCGCGCGGATTTGGCGCAAAAG
 GTCCGCGAAGCATTTGGCGGACAACGCGTGAATGAAGCGCGGAATGCGCGCTGCGGG
 TTTACTCAACCTGCGGCTGCGCGCGGATTTCTGCGCGAAGCAATCAAGCGGCTTGAAC
 GACGCTGTTTTCGCGCTGCGAAGAACGCAACCGCAACCGCGGATTTATCGACTATTCT
 TCGCGCAATTCGGGAGGAAGTACGATCGGCGCCTGCTGCTGAGCATCATCGGCGAC
 AGCATTTCCGCGCTGCTGCTTATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAG
 GACTGGGCTAGCGATCTGGTATGTTGGTCTGCTTATTGTTTCGAGAGCAAAAGCAAT
 GCGCGCTGAGGCTGGCGGATTTGAGCAGTTTACGCGCGCGCAAGTGGCTTTGAC
 GAAGACCTGCTTTCGCGACACCGCAGCGGAATAGTTGGAAGTTCGAGGCGGCGGAT
 GAAACCGTTTGGCATTTGGGAACAGTTTGTGATTTTTCGCTTCGCGACCGCAAGCC
 GTTTACGACAGCTGGGCTTGAAGCTGCGCTCGGAAGAGCTGGGAGCGGCAATCGAAATAC
 AAGCGATTTGAGAGGAAATCCGATGTTGGTTCAAAGAGGTTGGGCGTTAGAGAC
 GAGCGCGGAAGCTGCTGCTTTGAGCATGAGCGCGCTTGGCAAAACAGCGCGCGCGCG
 TTTATCTGCGAAGAACAGGCGCGGCTTCTTACGCGCTCCAGAGCTTTGGTGCGCTG
 CGCTACGCGATAGGCGCTGGAAGCGGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCGCTGCACTTCGAACAACTTTTACCACTTCCGCGAAGCAGGCTATCTCGCGAAGAAC
 GTCCGCGCGGCTTATCGGCTTGGGACCATGATGGGCAAGAGCGCAAGCGCTTCAAA
 ACGCGAGCGGCGACCGCTGAACTGCTGATCTGCTGACGGAAGCGCTGAGCGCGCGC
 ACCGCTTTGGGAGAGAAAATCCGATGTTGGGTTGGGCGGAGAGCGCGCTAAATCGGT
 AAACCGCTGCGATGCTGCTTCAATAGCGCGCTTGGCAAAACAGCGCGCGCGCGCG
 TATGTTTTCGAGTGGATGCGATGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TACGCTACACCGCGCTGCAAGCGGTGTTCCGCAAGCAGCGGATGGATGCAATGGG
 CCAACCGTTTTCGCGCAACCGCTGGAAGAACAGCTTGGCGCGGAGCTGCGAATTTGA

-347-

[illegible]

Appendix A

-348-

CTCCGGCGCGTCGATATACGCCATCCGGATTTTGTGTTTCGGCGCGTGCCTGCGATAAC
GTGAAGGGGTCTCGCGCTCATAGACTTTTGGACACCGTGCCTGTGTAGCGGTGGCCGGATTT
CGCGCATGCTCGCGCGGGCGGGCGCGCTGGAAACCGCGCTCCCTCGCGCGCGAGTAC
GTCCAGTACGGCAACCGCGCTTCGCCACCGCTCGCTGCCGTACCCCGTATAACCCAAACGC
ACCCAAAAGGACAGGGCGACGGGAAGCCATTTCATGATTTTAAATCGCATATTTT
CAATGCCGATGCCGTCTGAACATATCGGAATCGGATTCAGACGGCATTCACCTCAG
GATTCCTTTGGGACATAGATGATGATGATCTTCGACCGCTCTCCGCTCCAAATACACAC
TCTGGCGGCTATCGCGGGCAATATGCGGTTTTCAGACACCGCGTGAATTTGTGTGATTCG
TCTTCCATCGTCAGCGCTGATGATATTTCAAGCGGTGCACATCGACGATTTGGTTGCGG
TAAACGTTGGTGTAGCGATACGACGTTTGGGCTGTCCGCCCATAGCAGACGTTTGGCG
GAACCAAGAGAGCGCGCGCTTTCGACGCTTCCACAGGACAGGGAAATTTGCCCAACGCT
GAACATATTTGGCTTTTATCCGCAATGCAGATGAATTTTTCGACGCGCTGGGACGATTT
TTTTCGTTGAGGTGCGCGCGCACCGCTTTTAAATCATTTGACAGGGGTGGTTCACTTCA
TCGCAACCTGTGATATAGACCGCAACCGCATCTGCTGATGATGATGATGATGATGATGAT
TCGTATCGCGCAACGATTCGCGCGAATTTTTCGAACTAGATACCGCGCTTTGATTTTT
TTGCGCGCTCTTATCCCAAGCGCTCTGATGAAAATGTTGATGTTGCAGCCGTTACCGATGCG
ATATATTTCAATTTTTCGGGTACGAATTCGACTGCTTTTTCGGCGGCGATGCGCTTGAGTTG
TCTTGTGTGCTCATATTTTGTCTTTTGGGAAACCGTATCAACAAACAGCGGCCATCTTA
ACATTTTTTTTCACGCTGCTGCCCGCGCTTCAATGCGTACCGCAATACCGCGCGCTG
CGCTCTATGCTTTCCATCGCGCGAGATAGCGGAGTTTTCGTTGGTTTTCGCTTTGAT
GTTTCGCGCGCAAGATGCTTATGCCCAATCGCGCGCATGTTTCGCGCATTTTTCGGAAT
GTGCGCGCTGATTTGGGTTTTCGCAATCAGGTTGATTCGATGATGATGATGATGATGAT
ACCTCGCGCTGAAGCGTTTTCATACGCGCGCACGCAAAAGGACCGCGCTTCGCGATCTTT
GAACCTTCGCGCGGTTTCGGGAAATGGCTGCGGATATGCGCCCAACCTCGCGCACGAG
CAGCGCTGCGGATACGCGGTGACGACGCGCATCGGCTTCGGATTCGGAGTTCGCGACGCGCTT
TTCAATTCGGATTTCAAC TCCGCAAGTATCAGCTTTTCGCTTCGTCAGTTTGTGTGAC
ATGTTAGCGCTTCGCGATACGAGATGTTTCGTCATGTTTGTGTTCTCGATGTTTGAATG
AATGTTACAGCGCATGACGACGCGCTGACGATGTTGCTGCTTCGCGCTTCGCGAGTT
TCGAATTCGCAACGCTGATGACGAGCGGATGATGATGATGATGATGATGATGATGATGAT
ACGCTTTCATCGTAAATGCGCTCCAAATTTTCGCGACCAATGCGCGGTGACGACCGCG
CGCGGAAAGCTGCGCGCTTTCGCGCTGCCAAAGCGCTGCTCGCTGACGCGTTGCACTAA
TGTTCCCAACCTTCGCGCATCTGAGCGTATGCGCAATGGGAATTCGCAAAATCCCGCGTT
CGCGCGCTTTCGCGCGCTGTTTCTATCAACCGCGTCAAGCTTCAGACGCGCAGCGCAAC
CGCGCGCATGCTGTCGAGAATATTGTCGGTTTTCGCGCGCAACCGGTTTCCAAACGTT
TTCGCAACGCTTCGCGACGCTTTCGCGCGCGGCTGTCGCGGCTTTTCGCGGTTTTCGCAACG
CTGTCGGAATGCTGATGACGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT
CGCTCAAAATGACGCGCTCATGCGGTTTCAAAATCCCAATGATGATGATGATGATGATGAT
TGCTTCGATTTTCGACATATTTGCTGGGTTTTCGCGACCGGAAACGCGCGGATGCGCG
CGCGGGGAATCAGCGGATATTTTTCGCTTCATGCTCGCTTCGCGCGGTTTTCAGACGG
CACGCGTTCCTTTCGCGCAGATACAGGCTTCGCGCAAGCGCTCAAAATATTCGCGCTGCGC
CGCAACTCGTTTTCGTCGCGCTGATGACTTTCAGTTTCGCGCTGCTTTCGTTTTCGTT
ATGCAACACGGGTTTGGTTTCCATTTTTCCTTCGCGCGCGACCATCAGGTGCAACTG
TCGCGCGCTATAGCAAGATAGACTTCGCCAAAGTTCGCGCTGATGATGATGATGATGATGAT
CAGGACGCGTTTCGCGGTTGACGGAAGGTTTCGCAAGGCTATCGCGGCTTTCGCT
TCGCGCGGGAACATTTTCGCGCGCATGCGCAGGATTCGCTAAGGTTACGCGATCAGCGATTC
CTCAACGCTCGGCAACCCATTCGCGCGGAATTCGATTTGAGGAAGCGCTACGTCGAATTT
GGCATTTGCGATATACGTTTCGCAACGCGCAGGAATCGGCAATTCGCTTCGCGACGCTC
TGCAAAACGCGCGCGCTTTTTCCTCTCAAAACCTGTATGCTCAGCGCTGACGCGCGTGC
CGCTCTTCGCGCATATCGCGCTTCGCGGTGACATAGAGTGCAGGTTTTCGCTGCTCAT
TTGCGGTTGACATTTTCCAAACGCGCAACATGACGACGCGGTGCGCGCTTCGCGCAT
TCGACGCGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
CTATCTTCGTAATTTGTTTATTTTGAAGCAATGATTTTCTGTTTTCATTTCAATGCA
CAAACCACTATTTCAGCTGTTGTCACAACATTTGGCAGGGGATTTGTTGATTTTGGGG
ACAATTTTTCAGACGCGCATTCAGGTTTTCCTGATTCGCGCGCGCTCAAAACCGCG
CTTTCGCGCTTAAATCAAAATACCGCAACGGAATTTTCGCAAAAGCGCAATCAGATAC
AACAGGAATGCTGTCAAAACAAAACAGCAACCGCGCTCAAAACGCGCAGCGGAAC
ATAAAATATCGTTTACGATATTTGTCGCGCGCAACGCGCGCGCGCGCAAGCTTCGCTG
TCGCGCTTTCGCGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
CGCGCATCAGCGCATCAACGCGTACCCGATTCAATCAGGTTTTCGCGCATCACTCT
TTCAGCTTCGCGCTTCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
AAACCCACGCAACCAACCGTTTACCAAGCGCAACATCAGCGGTTTCGCTGCTGCTGCTGCTG
CAGATGCTGCGCAACGCGCGCATACCGTTCGGAACAGGACGATCAGGTTGGAACAT
TTGCTGCTGCGCGCATGATGATTTGGTAAAGTTCGCGCATTCGCTGCTGCTGCTGCTGCTG
CGCAACACCAACCAACCAATACCGATATTCGCGGTTAAAAACGGGCTTGTGCGCGACCT
GTTTCGCGCGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
GCTTTTCGCGGCTTTCGCGCGCATTAACAGGCTTCGCGGCTGCTGCTGCTGCTGCTGCTGCTG
AAAAACGATATCCCGCAATATAGCGGCTACACCTGCGCACCGCGCTTCCAAATCTGA
CGCAACGAGGATGCGGCAACGCTACCGGATTCAATCAGGTTTTCGCGCATCACTCT
TTGCTGCTGAGATATTCGCGGAGGATGCGGATTTTCAGCGCGCGCAACGCGCTGATTCG
CGCGCATGCAAAACAGACACGCAAAAGCAGCGGCGAGCGGATATTAACACCGGAT
TCGCGCGCGCGCATATGATGATTTTCGCGGCTTGAACCAACGCGCGCAACGCGCTTTCG
CGGATTTTGTACCAACCTTCGCGCGCAGGATTAACGGAATACGGAATACGGAATATTCG
ACGACGCGCGCTTCGCGCGCATTCGCGCGGCTTCGCGCGGCTTCGCGCGGCTTCGCGCGG
TAAACCCATCATCAACACGCGCGGTTTGAACACATTTGCTGTTGAACGCGCGGAG
AATCGGATGCGAAAGAGGTGCGAAAGCGCGGCTTTTAAACGATCCCAACCGCGCTTT

Appendix A

-349-

TTAGCGTACATCGTTTCCCTCTCTTTTCAATCAGTTTACTTGTGCAATCATCCAT
 CAGGATCGGGTGGCGGCCCTTCCAACTCGTCAAACTGCCCGCTTTTGGCGGACCA
 AAAAACCAGCGCATGACAAAGGCCAAATAAGTCTGATGGGACCAATAAATACATGCT
 TTCCATCACAATTTCCCTGTCAATCGTTCAAAACAAAGTCTGCCCGCAGCGGTGCA
 TATTCGTTACGCAAGTTCGACGGGAGCTTCGTCAAAAAACAGCTCGATACGGTCTTTG
 ACCACGGCGCAATATTTGGGGGATTTTCGCTGTACGACGAGCGGCAAGGACATGATTTTCC
 ATTCCGCTTCAAGTTTGGGGCAAAAGCGCGCTTGTGGGCGCGCTTCCGATTTCTTCGTG
 TCGGCAAGCAGATGAAAAGCGCTATATGTCGCTCCGCTTGGTCAATGAATCAATAAATP
 TGCAATAATTTCCACCCGCCCTTTTTCAGACGACACCACTAAAACACAGGCGAATGTA
 CCAGTTTGGACGGGAAGATGCAAGAATTTCTCCTCCCGACGCCGAAACACCGGCA
 ACCGCATATCCCCCTTTTTCGCTCAAAATGCCTGACTCCGCCATTTTCACGCAAAACGC
 CGGATTAAGCAAJAGCAATGCAAGAATTTTTCGTAGAATAGCTGCTCTTTTATCAAC
 CTTTTCAGACGGCGCCACTACTTTCCGCGCCAGGAAGCGAAACGGATTCGGCGCAATC
 CGGTTAGTATCGCTGTCCGATTCGAATCCGCGTCTGAACCTTTCCGGAGTAAGAAATGTC
 CCAAATAATGATCTGCTTTGACCTGGCGAGCTGTCCCTCAAGAGCGCGCTCGTA
 TAAACGACGCGCGGAATCTGTCTGACTGCTTGTCCGCAAAACTCAACTCTGCCCATGTC
 CTACATCACAATTAAGATAACGGCGAAACACAGAATGCTGATCTGTCCGACATCCCGA
 CCACACCGCGCGGTGGAAGCCGTGATGGAAGAACTCAAGCGCCAGGCTCGACAGCGCG
 CATCGCGCGCATCGGCGACCGCGCTGTCAGCGCGCGCACTGTACAGCGAATCCATCCT
 CGTTGACGAGGAAGTCAATTCGGCGCATCGAAAAATGATCCCGCTCGCCCGCTGCGCA
 CCGCGCGCACCTTTGGGCTCGGTGCGCGGCAAGGATTTCAAGGGCTTCCCAAGCT
 CGTCTATTGCACTCTCTTCACCAACCATGCGAAGTCCGCTACAAATAGCGCT
 TCCGAGAGATTTGATGAAAAATACGCGCTGCGCGCTTACGCGCGCACGTACAGCTA
 CGGCTCTGCTCGCGGACGAACCGCGCGCTCTCGGCAAGACAAAAAGACTCGGTAT
 GGTCAATGCCCATTTGGCGAACGGCGCTCAATACCGCGCTCGCCAACGGCGAATCGCG
 CGACACAGTATGGGCTGACCGCGCTGGAAGGCTGGTAATGGGTACGCGACGCGGCA
 CATCGCGCTTCGATTTCCGCTTCTCGCGCAAAACGCCAATATGACATCGCCCAAT
 CACTGAAATGCTGAACAAAAATCCGGTCTGTGCGGCAATTTCCGGCTCTGCAACAGCTG
 CGGCACTATGAGGAAGATGCCAAGGGCAAAAGCGGAATTTGGCTTGATAT
 ATTAAATTAAGGATGCTGCGCAATACATGCGATGCGCGGTTGCGCGCGCTGCGG
 CGCACTGGCTTTACCGCGGCACTCGCGAAACTCCGACATCATCCGCGAACCGTGAT
 CGGCTACTTTGGGCTTCTCGGCTGTAACATGACCAAGAAGCCAACTGAAAGCCGCTT
 CGGCAACGCGCGGTGATTACCACTGCGGACAGCAAGCGCTTGGCGGTGCTTCGAC
 CAACGAAGACTGATGATTGCCACGACACTGCCGTTTGAGCGGTCTGAAGGTTTAT
 CGCGACAGAACTGCCCGGAATGGAGGAGTTTATTCGCGCTTCCATGCTTAA
 ACAGCATGCGCTTTTCAGCAATGAGCGGTGCGCGCTTACCTGAACCTTATAGTGG
 ATTAAATTAAGGATGCTGCGCAATGCGCGCTCTGCGCGCTGCGCGGACGCAAAAC
 CTTCGTGCGCTTCTGCTGATTAAATTAATCCACTATAATGATTAACTATTTTAACT
 ATGTTATTTTCCATAAAATACATGACATTAAGATGTTTTCACAAAGATACAGAC
 ACCGGCAACACCGGCTGTGTTTATCTTTCTTATGCTATTTTAACTCATGATTTT
 TATCTTTAAATTAATACGCAAACTAACTTATACACAGGTTTTCATCTTTAGACTG
 CTTCCGTGTGATAGTGGAATTTCCGCTTTCTCTGCAAAAAATGCGCTGAGAAC
 TTCAGACGGCATTTGAACATCGGAATCAGCGGTTTGTTCATACCACTGATAAACTGT
 TCTCTTTGCAAAACACGACGCGCGCTGCTGCGCTTCCCTGCGGACGCGACGCAAAAC
 ACCCGCGCGCGCGCAACAGACGCTATCTTTCAACAAAGCTGATGTTGCGGCTGTG
 CGGCTTACGTGATTTGAAAAAGCGTTCCATATGACGCTGCTGATGCACTTCGCGCTGA
 TTAGCGGTGTAAGCGCATTTCTTTGAGGAATGACCACTGCGCATAAAAATCCAA
 ACAGCGGTTTGTGCGGATGTTCTTCAACGCGGATGCCATGCTGCTTACGCGCGCA
 GTATCGCAAACTTTTGCCTGTTCGGAAGATTTGCTGCTTGCCTGTGGAATTAAGG
 GTCAAGGAATGTCGACGCGGCTGTTTTCGCTTTGCGGCTTGGCAGCGAACGACGCG
 CGCGCTTACAGCAATATGCGCAATGCGGAATGCGAATGCGACGCTTTCCGACGGGTTCTGCT
 TGTGCGCGGTGTCGCGAGCAATAAGCGAGGATGAGCACTGCGACGCTGTCAGCGG
 AGCGACGATTAATAGGCGAAGTCGCGGTGCGGAGTAAACGCGACGCGCTAGCAGGATG
 AAGCGGAATCGGATTTGACGGCATTCACCAATGCGCTGCTTAAAGCGGATATGCGCG
 CCGAATCGCGGATGGCAATCAGCGGAACCGCGTGCACACGCCAAAGTGTAAAGTGCC
 AAAACGCTTAAACCGCATGCGCGCTGACGATGAGCCAAAGCAAAATGCCAGCGCG
 GGGCGACGACGCGCGCAACATCAGCGCGCAATATGCCAATAAATGAAGCGGAACG
 ATTTTACCGCTGAAGAGCTGCTGCTTTGATTTGAAATACGACTGCGCGGCTTGGGA
 AGCTGGATTTGTCGCGCTGCGGACGACGATGAGGACGACCACTTAAGATGATGCG
 GCGCAATACCAACAGCTGCTGCAACCAATAGCTGACAGTGCCTGCTGATGTCGCGCA
 ACAATGCCGACCGCATTAATGACAGGCAACGCTGAACATAAAGCAGGACGACACA
 AACGCGCGGCTTTCGCCGCTTTTGTGCGCGACCACTACTGAAACCAATCGGCAAC
 AGGGATACATACAGGCGGTAAACCTCAGGCGCAACACGAGGAAAAACGCCAAAGATA
 TTGCGCTTGAGCGTATCCCAAGACGCTTGAACGGCTGTGCGCGCGCTCATCCCGCTT
 TGGGCGCGGACGCGCGCGCTGCTGTTTGAAGAGGAAGGCTGCAAAAGCGCTTTTGGG
 GATGCGGCTTGTGCTGCGGATGAGTGGCTTTTCCGATGCTGCAATCAACTGGTA
 TCCACGGCGGATAGCACACGCGGCTTCCGACACCGCTGATAGGTCAAACCAATTTA
 TACGCTTGGCGGACGCTTTGATANGGAAGGCAACCTGCGCTGCTGATGTTGAAC
 GTCTGCTGCGCAAAACTCGTCTTCTCTTCTGCGCTTGTGGAAGAGGCTGCTCC
 AACAAATCCGCGGATCGGCTTGTGCGGACGATTTTCCGCTGATACATATAGTATCGCTG
 GCAATCTTGAACGCGAGCTTCAACGCTGCTGCGCAACGCGAAGCTCCGCGCAAGTGC
 TTTTTCGCGCGACGAGATGCTGTCATGCGACGCGGAAGCTGCTGCGACACATCAAA
 ATACCGCGACGCTGCTGCGGATGCTTTCAGAGGCTTTTCAATGCTGCGCTTGAAGCAAT
 GTCTGCTATTAAGTGAAGGCTGCGGCTGGAATTAATGATGAACCGCGCATTA
 TCCGACCTATTTCATAAACTTATTCGAACCGCGCATGACGATGTCAATACCAACG

Appendix A

-350-

ATGTGCGCGCGCTTTTTCGCCGCGGCTGTGGCAGCAGCGGCTCAATCCGCTGCACCTGAGCG
 CACTGGAACAGAAAGCCCTCCGCATTGTTCGAAGCCCATCCGCAATACCAACCGTTATCTCG
 AACGCNTCGAAGCACTCTGGACACGCACTGGCTGCCGCGAAGACGGCGAAGCAACCCCT
 TCTCGCATATGTCTGCTGCATCTGTCCGCTCAAGAACAGCGGGGCATACGACAGCGCGACG
 GCATACGCGCAATCCAGCACACCTGTGGCGCAACGCGGCTGGCTGGAGCGGAACACG
 AATATGGAGGCACTGGCGGAACACTGTGGACGCGCAACGCTACGCGACCGGTTTGGG
 ATGTCAATTTTACATACGCGGACTGCGCAAACTTCATCGCTTGGGTGGAGAGATCAAG
 CAGATTAACCGCGCATGGAATCGCTGACATACCAACGCGCTGCATGAATTCGCTGTGA
 AGCGGACAAACCCCTTTCAGACGGCATTCATTTTCCGCCAATATTTCCACAGCCCTTT
 TTCAGCATATCAACCAATCCTTCTTATCCAAACGGGGGCTGTGCAACACATCGTAT
 CGGCACGCGTTCAGTTTCTGCAAAATCACTGCGGCCCAACACAATCATACGGAGTTC
 AATCCGATACGCCATTTCAGTTCCCTTGGCAAGCGCAACGCCGCTTCAGCATACGGAAC
 GCACGCGGCACCTCATACGCCATCAGCGGCTGAAACGCGCGCATCCGCGCGTCTGCGCGG
 ATCTGTCTCTCAAGAACACCGAATTCACAAATCGTCTCGGGAAATTAACACCTGTGCT
 TTTTGCATTCAGACGCACTCTGCGCAAAATTCACACGTTGCAAGCGCTACAGATG
 CGTGCTCTTGGCGACGCACACCGCATCCCTTTCCCGCTACAAGCGACGATAATGCGT
 CGCAGAGGTTGGCGGAACGCGCAATAATCGCGCGCTGCGCGAATTTCCATACCTT
 GTTTTAAACCATCTCTGAGAAATCGAGAAGCAAAATATAAAACGGCTGCAAAATCAAA
 CGGAACGGCAACCGCTCTCGCATCCATCTGCGAATCAAGGATGCGCGACCGCGCG
 CCGGATGCGAACGCTGCACTCGCGCTGCAACCCCTCAACCCGCGCAACCTGGCTTCA
 GACGGCATCTGGCTGTGCGCATCTGTCGCGCTCGGTCGGAACGCGGTACACCGCG
 TGAACCGCTTCTCAACCTCGCGCGCAATTCAGACGACGACGCGGAATTTCTCATAA
 TCGCCACCGCATACCTTCTGCTCATCATCAACAAATAGCCGCTCTGAACAGGACAAAC
 CCTTTTCAGACGCATCAGATACCTCCAAAGCTGCGCGCAATCAGTGGTGTGATGACCGT
 GCGGCGCGTGGACATGACCGTGTGGGATTTCTCATCGGATGCATGCGCACGCTTCTCAA
 CTGTAGCTTTAAAGCGGATTTTCATGCTTCCGAAGATGGTTCGCGTCCACACCGCT
 TGCCTGCGCAACGCTGTTCACGATAGACGACCAACATCGCGGTTTCAGGATCGTGG
 CTTCACATCATATCGCGACTTCGACTTCAACAGGGAACGCGCGCATCTGGATACGGA
 CAACCTCGGATTCGAGATCGGAATCAACGCTCTGCGGCGACGCGCACATACGCGAT
 CCGCGCATATCTACCGTGCAGACGCTCTCCGCGCGGAAGTCTGCGCTGAGCGG
 CGTGCAGATACGCAATCGGTTCTCGGTTTGGTCCAAAGCTGATTTGGCATCATACA
 TCTCATATGCAAGCAACGCAATTTTCAGATAGCCATATTGTCTTTCAAGGA
 CAGCATTAATTAGAGCGCATTCACACCAACCGCGCGCGCGCATACCGTTAAC
 CTGTTCTAACTAGCTACAGCATATTTCAATGTAACTTTGTTATTTTATGGGGTGT
 AACTTTTTCAGACATCTTAAACCATTCGACCTGTCTCGCGACTTTCCCAATCGCG
 TTAATAATCATACAGATCTGAATATATTAATCTCTATATATTTATCCCTATCGA
 ATTTTAAACAGACGATTTTACGAGATTTCAATCGCGCGCAAGCAATTTTCA
 TCAAACTCTTTCCGATCTGACGACATTCGACTCCCTATTCCATAGTGCATATTAC
 GCAATTCAGCGATGAATTTCCACAGCGGTTGTAGTATGGTCGATTAAGCACTATTGT
 TTCATTAATTTAAATGGTTCTAAAGGTTACTAAATGAAATAATCCTGTTGCGCGTG
 CTTGTGTCTTGTGTTCTGGCAGCTGCGGCGGTGAAAGCGCGCTGAAGCTCCCGCTG
 CTGAAGCACTGCGCGGAAGCTCCGCTACTGAAGCACTGCGCGCGAAGCTCCCGCTG
 CTGAAGCACTGCGCGGAAGCTCTGCTGCTGAAGCTGCGGCTACGAGAGCGCTCGCG
 CTGAAGCTGCGCTACGAGCACTGCGCTGAAGCTGCGCTACGAGCGCTGCGCG
 CTGAAGCTGCTGCGCGAAGCTGCAAAATGCAATTTTCCGCTTCAAAAAGACAGAT
 ACGTTCAATATCTCGCTTTTGTATTTTCAGACGCGATCAGATTCCTCTCAATCTT
 CTCCTACCTCTCCGACAAACATGCTTGAACCTCATACGGAATTTCCGACTCTACCG
 GCAGATGAATTCGCGAACCTTCTCCGACGCTTTTAAAGACGAGCGCAACCGTTTACG
 TCTGACACAGCATCATTTTGCAGCGCTCAGCGTTTAAAGCGTGCACCAACATATGCGT
 TCTGCGACCAACCGCTTATCGGTTTACGCGCGCAAGCGGCAATCTGGTTTGGCGG
 GCGCGAGTTCGGAACCGGCTATGCTGACGCTTTCACAACTCAACCGCATCCGAGC
 ATCAATTTGTGACAGATGCAATGACGCTTTCAGCTTTCAGTTCGAAAGCGGCTCA
 CAGCGACGCGAAGCTCAACAGCGCTTCCCATCGTCTCGCGAGCGAAGGCTCGTGC
 CAATCGCGGCGCAACCTGCGCTGCAATGCGGAGGTTTGAAGTATTGCTTAAAGCAG
 ATGCGGACCTGGTATCTGGTTTGAAGTGTGCTTCCCAACGCGCAAGCTTCCCAT
 CTCCTCCCTGCTATATAAAACCAACCGGCTACGACTGCGGCTCTGTATCGGTAGC
 GAGGTACATTTGGGCATATGACTGCGCGCACGCTCAAGCTGTTTGCACACCTTACGAC
 AAGCAACCGCATGGCTGCGCATCCGCAATCGAATCGCGCTGCGCGCTGCTGACGAA
 CACAGCGACATCTGCAAGGATCTGAGCTTTCAGCTATCGGTACGAAAGGAC
 ATCAACAGCAAGCTCATCGAAGCTCTGCTGCTCAACGCGACGATGCGCGCAACAC
 GGCATAGGTATCATCAAAAACAGTGGCTGGACAAATAGCACGCGCTGCCGAATGCGC
 CTGATGAAAGCATCAAAACACACCTGATCCATATACATTAATGAATCGGCGCAACGCT
 CTCCTGTAACCGGCATTTCTGATTTGTCATACACAAAGGAAGGCAATAGATCGGAT
 TGTGCGTTTACGCGAGCTCGTGAAGTGGGTTAAATTTGGTGAATTTACAGGAAAT
 GAGCGACTTTTAAATAAAAAATCCGAGGTTAAATTTCCCTGCGCAATTTATTTTGTGTA
 CACTTAATCTTAAGAGCTGTAAATATCAAGCAAGCTTGTGTTGCTGATGATGATGTT
 GCGTGTGGCGCTGAATGTGGCTTGAAGTTAAATGAGATGATTTGATTTTAC
 AACTAATGGCTCTCAATTGGCGCTTATGTTTATCATCGACGCTCTCGCTCAATTTTC

Appendix A

-351-

CACACCGGAAGGTTTGTGGTAAAGCGGCTTCACAGCGGGGAAGGTTCAATAGCGAT
ATTTTATAGAGTGAAGTTCAGCTTTAGCTTGAACGCCAACCGAGTTTGTAAATTTGGGG
GGAGCGCAAGTAAATTCACGTGGGCATTTTCGCTATCGCTGAATTTTCGTTTACCCCGAA
ATAAGTCAATTTGGCTCGTGGTGTAGTAAACACGAAGGCTTTGCCCTTTTGTAGTAA
GTGTTCCCGCAATAACGATTTGAACCTGCTTCAATTGAGGAGTAAATCACTTTTGAAGT
AAACCGTTCTGTACATCTTCAGTGTTGATACGSGTGGCGAGGCGTTGATATTCGATCCA
GCTATCCGCAATCGCACTCTGTTTGTCTGCAAGTGGTGGCGAAGTGGCTTAACGGC
TGCACCAAGGCTTTTCACATTTCCCGCTGTAGAAATGCTCTATCTGGGTTTGGGAAGT
GCTACGTTGTTCTGCTTGTCCGCCCATTAAGCCAAATAGAAAGTTGATTACTTTCGTTTTG
CCATGTGAATCTTCGCCGCCAGTTGCACACCTTTACGATAGCCTTCTACAGGTGCTGT
TTTGCTTTGCACCGCATTTGGTTGGATGTCCGTCATACACGCAACACAGGCTTTGGG
TGGTAAGCTCGGCTGAAATATTCGCTGTTTTTGTGTTCRAACCGAAGCGGAATAGGT
ATTGGGGGCTTGAGCGTGTGTGCAATAATCGCCATATCATCGGTTCTTGCACTTTGGT
AAHAAAGCGAATTCGCTTTGTTTAAAGCAAGGCTTATCGATTTTGTGTTTGTGTTTGG
AGAAAGCGGAATGCTGTTTTATCTGCTGTGCATTTACTTTGATTAATTTGATGCCGATC
GAGGCTTTTAAATCGTCTATTGGATTTTCCGAAGTATGTCGGAAGTCCGCAATCAACT
TTTTCAAAAATTAATGAGTATTTTTCGCTTCTTTAGGATCGTAAGCAAAACGAAACG
AGCTCCGCCAGCATATCTTCTTTACAGTAAACTTTCACTTTGTATTAATAACCGAT
GTCTGCATTCGTTGTTTTAAATTCGCCAATATAGATCCCAACGGGCTCCGAGAGAGA
ATTTCTAAGCGGAATTCATCCAACTAATCGTTTGGCCGATAAGCTGGAGTGTCTGT
CACTCAATATATGGATGGATCTTAACCAAGATATAGATGTGTCGCAAAAGAACATA
ATTTCTCAATAGAGATATCTTACCTAGCCCTTCTGTAAATTCGCGAGATAAAT
TTGCTGTTGATATGACTATTTTATTTTGGAACTAAGGAGATATGACTTTTTAC
TATAAGAGGATGGGATCCAAATTTTCAGCTTGGCAAGTACTAATACGATCTTTAGT
GTTAGAATTAACACATCTCTTAATATTTCCGATTTTGTCTCTGTCGCCCATTTCT
TTTTGCAACCCCTAAACCTCGGCCGAAGCCAACTAGGTAACTTCGGTATATCTTGATC
ATAAAGGAATCTTTTGTAGTATTTGATGTTTTGAAATGGTATGTTCTAGGATATAG
TGGGGAAGGGGTGAATTTTGGATATCTCTCGGTATAGATAGTATTTTCTTTTTCGA
ATATCTCATGTGTTGCTTCAAGCAACTCTGATCAATGATTTGATCTTCTTTTTCGA
GTTTTTGTCTAAGCTAATCAACAGCCAAAGCGGAGGATATAAGAAATAGAAAAAA
TAGACTTACAATAAAGATTTTTAACTTCTGCTGCTGTTGCTTCTGCTGAGTTTC
ATAATTAATTTCTTTGTCAAGTAAAAATAATGGGGCGTGGATTTAGCATAAACGT
AACAAAAATGTGATTTATCTCACATTTTCTCTATTTATTTCTGTTTATTAAGATAA
ACGTTTGTGCTATTTGTCAAGCGAGTTTGAATATGGTATGATTAATGGCCCTCGTTA
TTTTCAAAAAATTCAGGAAAAATGACCGCACTTTACCTTTGGCATATGCCAATTTATCAT
CAATTTGGTCAAGTCAAGCAACTCTGATCAAGCTCTGATTAAGCAAGCGAT
GCTGGTTAGGTGAGAGGTTTACACATCAGCGGCGACGCTTGCCTCATACGCTCTGAG
CACTGTTTCCACATACGCGGCTGCTTAATCAACGCGTGTTCCTCGGTTTCCAATCC
GCCCTTTCTACTCTGCGCGTTTGTGCTGCTGTTCTTACCTTTTTCGAACCGATTTC
ATCTGATTTTTCGCGTGAAAAATGCAATCCAGCGGCAAGATGTTAGCGCGGACGT
TCGGTTTGCAGTAAATTTGTTGATTTCCGACTGGTTCAACAAAGGCTTGGCGGAGCT
ACGGCATCTGGTTTAATGTGTGTCGAGGCTGTGGGCAAGCGGTAATAGCAGCGCAAC
AGATAAAACCGCTTTTTCATATAGATATACTCTTTTAAAGCTGATACGGCGCGCGG
CGGATGCTTTGACTTCCGACTTTCAGAGCAAAACGGCTTCATATCCGGTCTCAATG
AAAAATCGTAAGTGTCTTTTATGTTCCGAATAGCCATAAACCTCTATCAATATCC
GCCGTACAGCGGCATAAACCGCAAAACAGAACCCATCATACGCCCTTTCTCAACGCGCTGC
ACAATCTTCTCGGGATACAGCGCTTTGAGGAGTGGGTATGCCCGAGCGACATTCGCCG
TTAAACACGCGGAACATCCCAAGTGCAGGCTGACGATTTTCGCCCTATGCTCAAGGCG
GGGCTATGCTCGGCTGGGAGAACCGTAACCGCCACCACTTCTGCCCCAAGCTGCC
GCCAATGCATCACTCGCTGTTGTTACACAGCAGCTGTTCGCGCAAGCAGACGAATATC
ATTCCTCTCGCAATGACAGATATTTGCGCGCAAAATTTGACGACATCTGTCGCAAGCGG
TTGATTTCTCGGCAATTCATCATCTTTTGGAGCGGAGACGCAAACTGCCAACCC
CGCGCCAGATAATGTTTGCCCAATCGGCAAAATGCGCTGTGCGGCCAGCGTTTGC
CCGAAATTCGCCACCGGACAAAAAGCGAGACAGGCTTTCATATCAAGCGAAAGGTT
TCGACAGAAATTTCCCGCGCGCTTCATCAATGGAAGACTCGGGGATCCCGAATGCCG
TCAAAATCTTCTGACTCGAATGCGCGAGAGCGGTATATCGATCCACATCAAGCGAGA
CGTTCTCTATTCAGCTTGGCTATATGTTCAACAGAAATAAGCGGTTTCAACGCAATAA
AGGCTCTTTAAGAGATATGTTGCGAGATGATGTCGGAATTTCAAGAACGCGG
AACACGATAGCTGATCTGTAATGCGCGCGCGCAAACTACCGACTGACGATCCGGAACGCGT
TTCACTCCCAACGCCACATGTGCGAAGAAATCTCAAGAATTTCAATCACTTCCGCAAT
CGCTGAACACCGCATCGACCACTTTCGCTGCAACACATCAATCGTCAACCGGGTGA
AGTTCTCTCAAGCGCGGAACAGGCGTGGTCTACAGCAGTTCGCTATCCAACTGGG
GAAATATCAGGATTTTGTAGGACATAACRAAGAACGGAATCAGACAGGCGAATTTTA
CCGCGAAACGTTGGAACCTATCTTTGCCGATTCGCAAGCGCGAGCTGCAATATGA
AAGACCGCAATCAAGAGTTGGGCTGCAAAATTCGCTCCGCGACTGGCTTGGCTGAG
CAGGAACCTGGGATTAAGCTGCTGCTCTACCGACTGAGCTATCGGGAATGGGCG
TATTAACGCTCCGGAATAATGCTCAATCTTAAATTTGAAAAATGGGCGCAAAAC
GACAGCATATGATCAAGAAACATTAAGACCGATGCTTAAAGAGTTCGCGTTGTAT
GAATTTCCACAGCGCTCATCACCATATTTAAGCCGATGAGCGCTTTCGCTCCGCC
CGCTTAAACCAATGCCGTCTGAACCTTGCCTGTTCGAAGCGCATAAACCTGTTTGG
GTTCAACCGCGCGGTAGCGGTCAGTTTGCCTGCTGCGGATGACGCGCTGGCAGG
AATCAGATAGACTTTGTTTCGCGCTTGGCGGCGCAACGGCGGAGCGTTTGGG
GTTCCGCAAGGCTTGTAGCTGCGGTTTGGGCTGCGGCTGAGGATAGGAAATGGA
GAGCGCTCCATGCTGCTTTTGAATCTGGTGCAATCTGCTCCAAAGCGCTGCAAA
GGTTTTCAGACGACCTTGAAGTAAAGTCAATCTCGCGCGCAAAATGTCGCTCGCTC

Appendix A

-352-

ATCTCCCGAAACAAACCGCTCGCGCAAGCGTTTGGAGCGCGCAATTTCCTGTTC
CAAAATGCTTCGTCCGACAAATTCAGCAAAACACAAACCCCTGCTACCGAACACCCGCCGAG
CATCTCGCCCAAGCGGTGGCAATGGCGGCACACACAGCTCGTTCAJACTGTCCGGGATA
ACGGCGTTCCAAACAGACGGATGGCGGGCGGATCGGACATATTTCTAGGGCGCCAGCC
GATATTGTCCCAAAATCCCGCTCGAAGTGTGGCGTTGCGATTCCGTCAGATTGGGATG
CGGCATACCGCCGCACTCAAAAACCCCGAGATTTCGAGCCAAATGGCGGATTTCATCCGATT
TGAGCGCAGATTGTTAAAGAAAGCGAGGTATCATTTGTTGGTCGATTCCGATCAT
AGATTGAGCGCAAAATCGCAAAATTTTGGCATTCGCGACGCGGAGAGAGACGGGCT
ATGACGTAJAATCTTAGGGGTAGGTTGCGCAATACCTAAATATTGATATTCTCAAAAGC
ATCAGAGAAAGGATGTTTCAACACACAGGACACACATAAAGCGCGGCCCATGA AAAA
TTTCAGACGAGCTGCAAAAGGGTCGTGAAACACAGATTTTTGCAATTGGCGATTCTGGC
ACATCATCAACCGTTTGGCGCAATTCTCGCGCGGTTGACAGCATATAATGAATCCAAT
TATTCATCAAGCAAGGATCATCTATGCAAAACCTCATGCTCTCGCGGTACTCGTGGC
TTTTTCAACCGTGGCTTTGCGGGGGCGGATTCAGCTGCAATTGACAGAACCCGATCGGA
AGACGGCGGCTTCAAGCAAAACAGCTTTTGAGCGCGCTTACGGCTTTTGCTGTTCAGG
CCACATCGTTCGCCGCGCTGTGTCGCAAAATCCGCGCGCGGAGCAAAAGTTTGGCT
CTGACCGTTTACGATAAAGACGCGCGGCGGACTGGGCTGGATGACCGGGTGGTGGCG
GACATTCGCGCGGATGTCCACGCGCGCAACGGACCTCGCTGCAATTAAAGCGCTGGCG
AACATCGCGGACGGAGCTGGGCTGGATGCACTGGGTGGTGGCGACATTCGCGCGGATGT
CGCGCGCGCAACGCGGCGCTCGTGCATTAAGCGGCTGGCGCAACATCGCGGACGCCA
GTCCGCGACCATATCGCGGTATACGTTTGGGATTTCGCGCATCAGGTTGAGCGCTTC
GTACACGGCAAAACCGATCGCGCTGTCTGCAACAGCGCAACCGCAAGCGCGGCT
CTCCGCGCATTTGCTGCGGCTTCTGCGCGGCTGCGGAGCTCCGAGCTTCAATCAAAAGC
CGCGCCCATACCGCGGATACGGGAGCTTTACCGCATGCGACACTGCGCGCTGGCGCTCC
GTATTGTGGCGGAACCTTCTACGGTTTCTGTGAAAGCAATTCATTGGCGCTGATA
GAGGCGCTGAATCGGGAATATTGATGACGTCAACGCTGTCTCCGCTGCCAAGGGGAC
CGCCTTACCGCGCGACGCTTCTTACTTCGCGCGCGACGATAGCAGCGCGGTTTCAAT
ACGCGCAACGCTCGGTTCAAGCGCGGTATGATTGTCACGATGCGCGCTAAAGACCCAA
CTTTGCGCGGTAAAGATATAGTGGTAAATTAATACGAGCAAGGAGCAGGAGCGC
CAGCAGTCAAAACCGGATGCTTTCAGAGGAGCAACCGGCTTAAATTAATTAATTA
CTATATCTCAAAACCGCTTAGGCTTAGCAAAATGGTGGACATCTTATCCGACAGCC
ATCTCTTTTACAGCGCATTCGCAAAATTTAAGTTGAGCGGTGCTCAAAATAGCGAGTT
AATGCGAAGCAAAATTCGTCGCGGTACTGCAACTTGGCCCTCCCTATAGGGGAGGG
TCGGAGGGAGGGTAAACGGGGCAGATACAGCAATTAATTCGTTGCGCGCGGATGCC
TCTCGCTAACCTCTCCACGGGAGGGAATGGATTGCGGTGAATAAATTCGCTCTAC
ATAAAAAATCAATGTTTATCTCAACCGCATATTAGGTTCAATCAAAATGGTGGATATCC
ATTTCGCGAGGATGCTTTCAGAGGAGCTTTCAGAGGAGCTTTCAGAGGATATCC
GCTCATACACCGCAGCAGCTTCGGAATTCGTTTACGCGCAGCTTTCTTGCTATTTGGT
GGATGGTGGATTGGACGGGCTTAATCGATAGTTCTTGCGCAATGGCTTTGATGAAGC
GTCCGTCGGAAGTGGCGCGGTGGTGGACAAATCGGCTCAATGCGCAGGTTTGGCA
TGGCTGGCGGTGCGACGCTGGTCACTTTGCCCGCTTGGGTGAGAAAGGCTGCCCGAAC
ACGACCATGCAAACTGATTTGACGCGCTGTTTTCGCAAAATGGCGTGGAGCGGTGTT
TCAGCGCTGCTCGGTGGATCGGTGGAGAGCGGAATTAATTTGACGCTTACGCTGGC
CGGGAATGAGTGGTGGCGGCTGGCGGCTGATTTGGAATTTGAAGGCTGGTGG
CGGGAATATTGTTGCTTATCCAGAGCTTCTGCGGAGCTTACCAAGCGCGGG
CAAAAGTATGACGGGATGATTGCCAAATGCGGATAGGCAATATGGCTTGTCTGCTT
TGACGGTCAAGTTTGGCGCAGCGAGCGCGCGGACGCGTTTAAATCATATCGCCAAAT
TGTCCACGGCGGTGCGGTGCGCGGACGATGAGTATGATAGCTGCTGCGCGCTTTCA
ATACATCGACGACTTTTGTGCTGGCTGCAACGCGTGGCGCTTCTGTCGGAAGTAATCA
GAGCGCAATGCTGCTTGTGGTTGGGATTTTGGCAACGAGCGGCTGCGAGCGGTAA
GCAAAACGAGCTGCTGGTTTATGTTGCTGGCGCGCGCGGATTAATCTTCGCTGGC
CTTGGCGGCTTGGCGGAGGAGTATCCATTTTTCGAGAGGCTTTCGCTGATAGG
CGTATGCGCTGCAAAACAGACGAGCGAGCTTTGCGCGCGCTGCGAACAGATGTTT
TGGTGTGCGCGAATGGAGTTCTTCAGCGCAAAACCGATTGTCGAGCGGTGCGGCA
GGAGTTTTCGCAATCCCTGTGCTGAGGCGTAACGGATGGTCGGGAATCAGCTTTTGG
CAAGCTCAAGGATAGATTGAGTTTGGTCAATTTTGTCACTTTGAATTAAGCGCTGCA
ACGTTCTGGAATGGATTTCAGACGGCATTTAGGTTAGGTTGGCATACGGGTGGGATTT
TGACCATCAGCTTCTGGAATCATTGCGGTGGCAGGCTTGAATGCGGAGCGACGAATCT
TCAGAGCTTTCGAGCATCTGCTGAATCAGCTGAGTATGCGAGATTCTTCTTATAG
TGTTTGGCAGTACGAAAGGCTTCGCTGTTTGGCACTTTCGTCGAGCTTCTGTTGT
TGCGCGAGCGGTGGGTAGTCTGTGATTGCTTTTCGCGACGTGCGACATATCGAAGAA
GCGTATTTTGGGTATCAAAATATCAACACGCGGTTGTAATACGCAAGCGGATGGG
GAACACTCGGCTTATAGCAAGTGCATTCGAAGCTGAGCTCAGACGGCGCGGTTGAGC
AGTATCGACAAATCGCTGCGGAAATTTTATATGTTGCTGATTGAATAGGCAAGAA
TGGCGCGGAACCTGCGACCGCTTACACACGCTTGAATGTCGCGCGAGCGACGCGCA
CGAATTCGCGGCTATGCTGGAATCAGCTGAGTATGCGAGATTCTTCTTATAG
TCAGCTTATGTTGGGAATGCTTCAGCGCTGATTTTAAAGTGGGAAATTCGAA
AACGGGATATTGAACAAATCGCACTTTTCGGGTGAGCATTAATATCTTGAGACGAT
TGTTTCAGACGGCATTTATGCGCGCGCGCGCGCATTAATTCGCGGATTTGGTCAAGT
TTTTCTTTTGGGATAAAGGTGTTGCCATATCAACACGGCGCTTTCATCGCCAAATGA
ACATCATATACCCCGCAAAACGTTGAAGCTTCTCATCGGGACATAGGCTGTGTCT
CTGCGAGTTTGGCAAAATTCGGCGGAACGCGCGGATGTTGTCGAGCGCGGATATGT
TGGCGAAAGAGCTGCTGACGCTTCTTGGGTGCGCGGATTTGCAAGGAGCGCGG
AGGAGTTTCTTCTGCTTCATGTGCAAGCGCGGCGGCTGCTGCAATACGGGCT
ATTTGGCGGATGGTTTGCAAAACATCTGATTGCAAGCGGCTTTTCGGCGATATAGTCCGAC

Appendix A

-353-

AGCATGGCGACTTGTCCGCAAAACGGCGCACTTTGGCGTGGCAGGCATACAGCAATTTCA
 ATCGGTTCCGGCAAGGTAAACGCTTTTGGTTTCAACCGGATTCATGTTTCTGCTCTCAACG
 GGCACITTTTCAAGCATCATTTTATAATAAAACAGCTGCACAAAGCAGGCTGTCGCTGT
 TTTGAGCACTTTAAGCGGATTAATGCAGCAAAAGTCACCTTGGCGTTTCATCAAAAGCACCGGTG
 ACCTGGGAAGGTACAAAGCAATTTATATTCCGCGTCGGCCAAATTAGCAGGATCCAGAT
 CAGGAAAGCTTCTTCCGCGCGCCGATCAGTTTGGTATGGGCAACAAACGCTGCATCATCT
 AGGTTTGACATAGTGGTATCGGCGAGCACTACGCGCTCTTAAATACGCGGTGCATGTC
 TTCAGCTTTGGCAATGCAGAGTTGGGACATCGCGCTTTGGGTTGCGTACCGGATGTT
 TTTCAGATGATGATCAACATCTTTTACATGCTTTGCTTGATCGATGATTTTGGGTGTGA
 CTGCATATTGCTGTGATCTGCAGTTGCCGACAGTTGCCGCGACGAGGGCTTCTGGC
 AGCATCTGCGAGGACGCTTCCGCGCGAGCGCTTCGGAAGCGCGTGCTTCAGCAGCAGG
 AGTTGCTTCGGCAGCGAGCGCGCGAGGTTCTTGAAGCAGGCGACCAACCGATAACGGC
 GGCAGAAATCAGAGCCAGAATCGCTTTCAATCAACAACTTCCCACTGATAAAATATATTTC
 GGTTTTCAAGAAATCAAGTGCACCGCCATTAACAAACCTTGAAAAAGATTCGCGCGC
 GTTGCAAAACAGATGTTTTCGGAGCGGCAATTTTGCTCAAAATTTGTTTGAATCAAAAGC
 CTGTTTGCAGTTTCAAGTCAAGTCTTTCGCAAAAGGCGAATTTTACCGCAACTATTTC
 TTTAGTATTAAGCACTATTATCTTACTTCTTAATATAACGATGTTTACACAAATTC
 CGTATACATTTTATGCGCATGCGCTTCTAACCAAGTTTGCAACTGCTCTCGCCAAATTCGG
 GATGCGGTTTTCACAACTTTGCGCGCGCGCAACCAAACTCTCAGCGAGCGCTTACTCA
 AATCGAGGTTATGGTTTTCGCGGTTTTCGCGTTTGGGCAACGCTGACCGAAACAG
 AGCGTATCGAAGCATCAAGCCCTTGCAACTTGGCGAATACCGAGCGTGCATCAATTTTCA
 AGCGGATTCGCGCATATTTGTTGCGCCAAAGGACAGCGCTGCGCTCTGCATACATG
 CTTGTTGAATATGAGATGAGCGAGCTTTTACAGCGGACAGATTCACGCGCAATCAACG
 CGCGCATCTGCTCCGCTGTTTCAAAAGTCCGGAAGCAGCGCTGCGCGCTGCGCCAACT
 GTTCCAAATTCATAAAACATACACCAAAAAGATGGAATACCGCAACGCGCTTATTAT
 TCAGACGGCATTTAGCACTTTGACACAAACGCTTGTGTAAAAATCGCTTTTGCGCACTAT
 TATATTACGCGCAGGAATATTATCATCTGCACAAACATTCGCAAGAAATCTTCGCGAGCC
 GCAACGCGCTTGCTGAAACATAACGTAATCGGTGCCAAGATCAACGCGCTCGAAG
 AACGATGACAGCGCTTAAGCGATGCTGATCTTCAGCCAAACCTGCCGATTAACAAACAG
 CACTCGCGCGAGCTGCTGCGCGAGCTTTCGCGAAGCTTCTGCGCTGCGCGC
 AAGGCTTCGCGCGAGCTGCGGTATGCGCACTTGCAGCTGCAGCTTATCGCGGATGSG
 TGCTGCACGACGCGAAATCGCGAAATCGGTACCGCGAAGGCAAACTTTGCTCGCA
 CCGCTCGCGTCTATCTCAACGCGCTGCGCGGCAAGCGCTACAGCTGTTACGCTCAACG
 ACTACCTCGCTCACGCGATGCGGGCATTTAGGAGCGCTCTACAAATTTCTCGCGCTTA
 CCGTGGCGCTGATTATTCAGATATGACGCGCTTCGACCGTCAAAACGCTATCGCGCG
 ATATCACTACGCGCAATTAATGAATTCGCGTCTGACTACTCTGCGGACATATTTGTTA
 CGCGCCATTCGCAAGATGCGCGCGCAATGAATTTGCGGTGTCGATGAGTGAGTGAAT
 CCATCTGATGTCGCAAGCGCGCACTCGCTGATTAATCTGACGCGGATGACAACTA
 TCAGTTGTACCAATCATGAACACGCTTCCGCGCACTCTGCTGTCAGAGACAGAGAG
 AAGGCGAAGCGCATTTGGGTGACGAAAGCGCATCAGGTCTCTGAGCGAAGCAG
 GTTCAGGAACCGCGGACAAATCTGACCCAAATGGGATTTGTGGCGAAGAACGACTCCC
 TCTATTCCGCGGCAATACTGCGCTGATGCAACCACTTATGGCGCATTTGCGCGCAT
 CCTCTTCCCAAGACCAACAATTACCTGCTCAAGACCGGCAATCTGATGTTGAGCG
 AATTCACGCGCGCTGATGTTGCGCGCGCGCTGTTGCGAGGCTGCTCATCAAGCGCTG
 AAGCAAGAGAGCGTGGAATCAACGCGAAGAACCAAGCTTGCTATTTATACCTC
 AAACATTTTTCGCTGTACCAACAGCTCTCCGCGATGACCGGCAACGCGTACGAG
 CCTCTGAGTTCCAAAGCATCTCAACCTCGAAACGTCATCTTCGACCAACCGCGCG
 TACAGCGCAAGACTTCAACGACGATTTTCCGTTCCGCGAAGAAAAATTCGAAGCGC
 TCGTTAAAGCATTTGAGGAATGCCAAGCGCGGCGACCGCTCTCTGTCGGCACCA
 GCATTGAAAACTCGCACTGGTATCAAGCTCTGACCCAGCGGACTCGCGCACAGC
 TCTTCAACGCGCAAGAACAGCAAGCGCAAGCGCTGATTTGTCGCCAAGCGCGCAAAATG
 CGCGATTTACGCTTCTGCAAGATTTGGCGGACGCTTCGCTGTTTGGGCGCA
 ACCTGAGCGCAACCGATGCTGCTCCGCGCGAGCAACTTTGAGCGCAAGAGCAAC
 AGGCACAATTCGCGCATCTGAAGAGCGCTGGCAGCGGCAACGACAAAGTATGGAAG
 CAGGCGGTTTGCATCATCTGCTGACGAGCGCGCAAGACCGCGCATGCAACCAAT
 TGCGCGAGAGCTTTCGCGCGCTGAGGCGGACCGCGGATTCAGCGCTTCTATCTCTCTT
 AAGACGATTTGCTGCGCTTATTCGCACTGACCGCGCGCGCGCATCTCTCAACGCGCTG
 CCGCGAAGCGCGGCTGCGCATCGAACATGCAACCTCTGACGCGCGCAATGGAAGGCGC
 AACCGAAATGTCGAAGCGGAACTTTCGATATGCAACAGGCTTTGGAATACGAGCG
 TTGCGCAAGCATGCAAGATCTGATTTACGCGCGCGCAAGCAATTTGACGCAAGAG
 ACATCAGCGCTGTGGAAGCGCATCAATCTCATATATGTCCTGCTTACCTCGGTTCAAA
 TCGAACAAACCTGTCGCGGTGTTGAAGCAACCCATCGGCAACCTCAGTCTCATCC
 ATTCGCAATCGCGCATATGGAAGAACTTTGGGTGAGTGCAAACCGATCTGGTTACCG
 AAGCTTAAATCCGATGGGACAGATTTACGCGCGAAGCTTGAAGCGCGGGGCAAA
 TCGTCCACGCAACGACCGCTGCGCTCGCGCACGCGTTGAATCAAAACATGCAAG
 GCAACCTGGCTTGAAGCTTTGAACGCAATGCGCTTGCACATTCGCGCTTTCAGA
 CGGCTATTTGCTGAAAGCCACATTCGCTGCTGCGCAATTCGATTTGCTGAC
 GTGCTACCAAAAGCAGCATCGCTCGCGCCAGCATGATTCTCATCGCACTTATG

Appendix A

-354-

ACGAGCTTTTAGCCAAACCGATATTGTCGATATTATCGACGAGCAGGTTCCGCTGAAAA
 NAGCGGGGGCAACTATTGCGCGTGTGCCCGTTCCACAGGAAAAACGCCGTCGTITTT
 CGCTCAGTCCCAACAGCAGTTTTACCATTTGTTTCAGTTGCGGGGACACGGCTCAGCGA
 TTGTTTTGTGATGGAACATCAGGAGCTGCTGTTCCGAGGGCGGTTTCAGTTCCTTCGCG
 ACCGGCTGGGTATGGTCTGTCGGAAAGTGCAGCGCCAAACGATATATCCGAGGTCCGTCG
 CGCAACGTATAGAAAAACAGCAGACATCGGAGGAAACGAGCGGTCGCGCAGCTGATTTT
 ACCGCAACAGTAAATTCATTCAGCGCGAAAGGCTATTTTGCAGACAGCGGGCTTGA
 GTCCGAAGTATTCGAGTATATGTTTGGGCTATGCGCGGAGGCTGGCGGCTTGA
 CGCAAGTCTTCACACCGTATCTTAATACCGGCTTAGTGATACGGGATGCTGATTGACA
 ATGAGGGACGGCATACGACCGCTTCGCCATCGGATTATGTTCCCATCCGAAATCCGC
 GCGGGCAGGTTATCGTTTTCCGCGCAGGGTGCTGGACGACTCGAAGCGAAATATTAA
 ATTTCCCGCATGCGCTTTGTCGATAAGGGAAAAACCTTACGAGCTGATGAAAGGC
 GTCCGCTGTCAGCGAAGCGGGCGGATTTTGGTGGTCGAAGGCTATATGAGCAGTGGTCTG
 CGCTGCGCAAGTTCGGGTGGGCTGACGGCTGGCGGCTTTGGGTACGGCAGCAGCGGG
 AACACGTCAAAATCTGATGGCTCAGGCAAGCATATTATTTCTGTTTCGACGGGCA
 GCOCGGCGGAAAGCGGCTTGGCGCGCTGGAACAGCGCTTCGCCGATGTGAAGGAC
 ACAAAATCGTCGATTTTTTTGTTCTGCGGGAAGAACGACGACCGGACAGCTACATCCGCG
 CCTACGGCAAGCGCAATTTGAAGACGCGCTTCTGAATCAAGACGAGCTTTGTGCGAGT
 ATTTCTGGGAACACCTTTCAGACGCGATTCACTCAATACGGAAGGCAAGGCGGAAT
 TGGTAAAAACCACTTCGCCGCTTTTGGCGCAGATTACCGCGCGGCAATGGCTATTTTGT
 TAAACACACGGCTTAGCGAGCTGGTGGCATCGACCGCAACCTCGCGAATCTGTAG
 GACGGAAGGCGCGAAGCGGACGTAACCAAAAAACATCAAACTCCCTCGGATTTTCC
 TCAAAACGCGCTGCTGATACGCTGACAGCGCAATCGCGAGGCTTTGTAATAAT
 CGGATTGGGCTCATATATAGACTCGCCGATTTATCTGGCGTTGACGGTGAATTCCGCT
 GCCTTGCACATCTTGGCGAATCGATTAAAAACCATCGCCGCGTACCGGAACCGCTCAGG
 TTTTAGAGTATATGCGCGGCTCGCTTACGAGAAGCATACCGCAATCTTCAATCAA
 CGCAACCATCGGAAGAAATGAACAGCAGCATGAAGAGATTGGGAGATTTTCCAAATCG
 GATGAAAAACCTGCTCAATGAGTTAAAAACAGCCCAATCGAAACATTAAAAA
 CCTCGCAATCCGGTTAAATGAAGCGGAAAAAACTTTTCGTGCTGCTGACACCGCA
 TCAAAATTCAGCGCTCGCATCTGCAATCGCTTGAACGCTTGAACGCTTGAACGCT
 ACCCGGCTCGACACACACCTCGAGAACACCATCCCAAAAGCTTCAGACGGCAT
 CAGAGTACCCATCTCTGCCACGGCTTCAGGTGCGCTCAAAACGCAACCGTCCGCATTTA
 CCAACGAAGAACGACCAATGTCCAGAAACCAAAATCAGAGAAATCAAGACGACACCC
 GTCCGTATGACATTTGAAGAGCACCGCGCGGCTGCTCAGCTCATCATCGGTGAAG
 AACGGCGCTACATACCTTACTTCGGAATCAACAGCGCCTCGCAGACGATATGTCTGATG
 CGGACCAATAGACCAATTCGTGAGATGATTTCCGGTTTGGGCAATCAGATTACGACAC
 AACCGCGGATCGCAAGCAATATTGCAAGATTCGCGGATGAATTTGCGAGCAATCTCG
 CGGTCGAGAGCGGAGGCGCGCTTTCAGTGCAGATTCGAGTTCCGCAAGACCG
 ACCCGCTCGGATGTATATGCGCGAAATGGGACAGGTGACCTCGTACGCGCGGAAGAG
 AATCATCATCGCAAAAAAATTTGAAACGCGCTCAAAAAATGTTTTCAGCGCATCTCG
 CTTGCCCGGATCCATTGCTGAATCTTAGAACTCATGAAAAATCCGGAAGACGAAA
 TCCGCGCTGACGAGTGTGAGAGCCATTATCGACCGGATGAGTATTTGCTCAAGCAT
 TGGGCTTTGGGCGCTTGGAAACACAGCGCCCGGAAGAACTTCCAGACCAATTCGGAG
 AAAAAAGACACGACCAATTCGAGAGAGTTCGGGATGAATTTGCGAGCAATCTCG
 CGAATTTGAACAAAATCATCGGCGCTTTTCGCAAAATCGGAGCTTGAACAAA
 TGATTGGCGGTTTGGAAAAACACACAGCGCGGACAAAGCATATCTGCCCTACCGCGAG
 CGATTGCCAACAACTGCTGAGAGTCCGTTTCGCGACCCGGCAATCGACAGCTCAGCA
 CGAGCTCGCGCGGAAGTAGAANAATCCGCAAACTCGAACCGGAATCCGCGACATCT
 GCCTCGACCGGTCATATGAGACGCGACTACTTCAATCAAAATCTCTCGCGGAATCA
 CCATCTAGAAATGGATTGAAGAGAAATCGCCAAAGCGAGGTTTGGAGCGACCGGCTCG
 ACCGCTTCCGCGACGCTATCTCCGCAAAAAACCGAGTTTGGGATTTGAAAAAAGAA
 CCGGATTTCACTGAGCAATTCAGAAATCAAGCAATTCGCGATTCGCTGAGCAAAAG
 AAACCGGACGCGCGCAACAGGAATGATTCAAGCAATTCGCGCTCTCGATTTCATCG
 CCAAAAAATATACCAACCGGGGCTTACAATCTTGTATCTGATTCCGGAAGCAACATCG
 GTTTGATGAAGCGGTGATAGTTTGAATACCGCAGAGGCTATAAATTTCCACCTACG
 CAACCTGGTGGATTCGCGAGGCAATTACAGCTCATTTCCGATCAGGCGGTACCATTC
 GCATTCCGGTACATATGATGAACATCAACAGATGAACCGCATCTCGCGCAACACCT
 TTAGAAGAACCGGAGGAGTCTTCCCAATTTCCCAAACTTCCGCAACTCGCATCGGCT
 AAGCAAAATTCGCAATTCATGAATTCAGAAATTCGAGAGCGGATTTGATGGAACAAAG
 TCGCGACGACGACGATTCGCACTTTGGCGGCTTCAATGAAGATGCCAACAATGTTGCG
 CGGCCGATGGCGCAATGTACACGCGCTCGCACAGATCAACAAAGAACTCTCGAAGCG
 TGACACCGGTCGAGGCAAAAGTCTCGGCTATGCGTTTCGGCATGATTGAACACCGAC
 ACACGCTCGAAGAGTCCGACAGCAGTTTGAACATACCGCGGCAAGCATCCGACAAATCG
 AGGCAAAACGACTCCGACAGTTCGCGCATCCGCAAGAGGACGACTTTGAGAGTTTCT
 TGGACAGCGAGACGACGACGCTTAAACCAAAAAACCGCAGTTTCAAAATCTCGCGGT
 TTTCTTACACATTAAGATTCGATGATTCGACATTCGACATCTATCCGAGACCTTTC
 AATATCCCAATTCCTCCATTAATTCACACAGCATTTAGGAGTATTTCTATGAGAC
 CTCTTTCCGCAAAACCGACAGCCATGATTGCCAARACATCGACCTTTTCCCATATT
 GAGTTGGATCAGGTATGATTGTCGAACCGATCGAACAGTATCGAACGCTCAAGAAC
 CGGTACCTTCGAGACACCGCGGCGCTCCGCGCTATCCCTGCTGCTCATGTTCAAGAC
 GCTGCTGCTCGCAATGTCGACAGCTCTCCGATCCCGACTCGAACACAGGCTCATCAC
 CGCATCGATTTCACCTGTTTTCGCGTTTTCAGCACTGAGCATCCCGGATTACAGCAC
 CTATCCGCTGACGACGCTGGCTGCGAGACGACACCTGTCGACAGCTTTGGAATC
 GATTATCTGCACTCGCAAAAGGTTAAAGTTAGAGTTAGAGTTAGAGTTAGAGTTAG
 TGATGCACCATATTATCAGACCGCTGGCAACCAACAGCGTCAGGCCATAGAGTCGATGA

Appendix A

-355-

AAGAAGCAAAGTCAGCGGCCAACACACCGAGTAAGGACAGCGATGCCCGTTGGATCAA
 GAAAAACGCCCTCTCAAAACCTCGGTTACAAACCAACATACCCGTACCGCATGCCGGAAGGCTA
 TATCGAGAAACTGCACATTACCCCGCCAAATGCCCATGAGTGCACAAACACTGTGCGCGTT
 GTTGGAAAGGGTTACCCGAAGGTACGACCGCTATGCGCGACAAAGGCTATGACAGTGGCGGA
 AAAACCGGCACATCTGGAAGAACATCAGTTGCGAGGACCGCATATGCGCAAAAGCTGCGCG
 CAACCCGCCGCTGTGCGAAGTGCACAAACCAAGCCTAACCGCATTTATATGCGAAAGCCGCTTA
 TGTGGTGCACAAAGTTGCGTACGCTGCACCTGCATATTCGCTTACCGTACCGCGGACCGCTTA
 TTTGGAGCTGTTTAAAGTGAGTCTCGCAAGCGCACTGAGCGCTGTGTTTGAACCTGTT
 GAAAGCCGCCCAACAGGCTAAGTGGCGCTGTGCGCGCTAAAAGGCGACGACGATGCTGTA
 TTATCGGGTATCCGGGGAGGATTAAGGGGGCGTTGGGTAGAAATAGGAGATATTTGGGG
 CGAAACACGCCGAAACCTGTGTTTGGGTTTCGGCTGTGCGGAGGGAAAGGAATTTTGA
 AAGTCTCATCTCTGTTATTTTACAAAAACAGAAAAACAAACACGACCACTGAAATTCG
 TCATTCCCGAGAAATGGGAATCCAGTCCGCTGCGTTGAGTTTCAGCTATTTAGATAAAATTTTG
 AAATCTTAATGGCGTCAATTCCACGAAGTGGGAATCAGGAGCGAAATATCAAGAAAC
 CGTTTTACCGATAAGTTTCCGCGCGACCACTGTAGATTCGCTGCGCGGGAATGAC
 GATCCATCCATACGGAACCTGCATCCGCTCATTCACCAAGCTGCATCCGCTCATTC
 CCACGAAAGTGGGAATCCAGTTTTTGAATTCAGTCATTCGCGATAAATTCGCTTAGCA
 TTGAATGTCTAGATTCCCGCTGCGCGGGAATGACGGGATTTAGATTCGCGGATTTATC
 AGGAGCAACAGAAAGCGCTCTGCGCTCATTCGCAAGTGGGAATTCAGTTTTTGGAG
 TTTGAGTCATCCCGATAAATTCGCTAGCATTGAATGCTAGATTCCCGCTGCGCGGG
 AATGAGCAATCCATCATACGAACTGCACCAAGCTCATTCGCGAAGCTCATTCGCGTTCGCG
 TCATTCGCGACGAAGTGGGAATCCAGTTTGAATTCAGTCATTCGCGATAAATTCGCTTAGCA
 TTAGCATTAATGTCTAGATTCCCGCTGCGCGGGAATGACGAATCCATTCGCTAGCAAA
 CCTGCATCCCGCTCATTCGCAAGCACTCATTCGCTCATTCGCGAAGTGGGAATCCCA
 GTTTTTCAGTTTTCAGTCATTCGCGATAAATTCGCTTAGCATTGAATGCTAGATTCCCG
 CCGCGCGGGAATGACGAATCCATCCGTCAGCAAACTGCACACAGCTCATTCGCGAAG
 TCGCGGAATCGCTGCTGAGCTTCAGTCATTCGCGATAAATTCGCTTAGCATTGAATGCT
 CTAGATTTCGCGCTGCGCGGGAATGACGAATTCAGTCATTCGCGAAGCTGCACACGCTCA
 TTCGCGACCACTCATTCGCGGGAATGCGAATTCGCGGCTGATGAGTTCGCGGATTC
 AGTCATTTCCAAATAATTCGCTTGAATTAATGCTGAGTTCCGCGCTGCGCGGGAATG
 ACGAATTCATCCGCTACGGAACCTGCATCCGCTCATTCGCGAAGCTGGGAATCCAGTT
 TTTTTCAGTTTTCAGTCATTCGCGATAAATTCGCTTAGCATTGAATGCTAGATTCCCGCT
 CGCGCGGAATGACGCGGGAATCTGTGTTATTAATGAATCAAAAAAAGCTGCACCTTAAT
 CAGTTGCGCGCTTTCAGTCGAGTTTGGGGTGCAGATCAAGCTTCAGACGTTATTCCTT
 TAAACCTTCATTTCGAGCGCGAGACTGAAGTTCCTGCGCGGTGGGCGATACCTTCCATAG
 TTGCTGTGCGCGCGCTGCGGCTTTCGCGCTTCCTGCGAGTTCGCGCAAGTTCGCGCA
 GTAACCTGCGGCTGCGGATTCGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT
 AGATTCAGATGAGCGCAACCTGCTGCGCTGCGGCAAGCAAGCAAGCTGCTTTCGCGA
 TATCGTTTTCAGTCCCTGCCAGATTAAGCAAGCTGCTGAGGGTTTTTCCTTTGGAATAG
 GTCAGCATTAATGTTTGGCGCCATTTCGCTTCAGGCTGCTGATTCGCAACCCCAAAACA
 TAAACGACGCGCTGACGCGATCAAAAGCATAGCTGCGGAGGACAGCTGCGCGCGGTTG
 GATACCGATTTCGCTTTCGCTTTCGCGGTTGACGCAATTCGCTGATCAACACTTCGCGGAGT
 TTGCGATACACCGCGCTTCAGCTGATTTTCGCAATATATTAAGCGCTTCGAGCGACATTA
 TTTTGGCGATGATATACTGCGCTATCAATGCTGCTCAATTCGCTGCTGCTGCTGCTGCTG
 AATTCGCTTTCGCTGCGCAACCGCATATATGCGTAAAGGCTTCGGAAGCTGCTG
 ATTTCCAAAGACCGGAAATCGCGCTTCGCTGCAAAACCGATTTCGCGGTTGCTGCGCTT
 TCGGATTCAGGCGGAGCGCTGCGAGCTTTCGGAATACTGATATAATGCTATCCG
 AAAAGTCTTGAATGAGGCGCTTTCGAGCGCTGGAAGCAGCGTAAAGACGGAAGAAA
 TGCGGTTGCGTTTGAACAAATGCGCGCTTTCACGAAAGCTCAACATACCGCGCGCTG
 CGGACGAGTTCTTCGAGCTGTGTGAGTTTTCGCTGCTACCTGCGCGCAAGCTGAA
 TCGAATAATTCGCTGATTAAGAAAGCGCTTCAAGAAATGATTCGCTGCGCTGCT
 ATTTTTCGCGAGCAATTCGCGGAGCGAGGCTTTCGATGATGCGGAGCGAGCGAGCT
 TCGACGATTCGCGGCTTACCCAAAGATACCTATCTTGAATGTTTTCATGAATTCGCTG
 GATTCCGAAATCTTTCGCGCATTTGGGGAAGCTTTCGCGGCGGGAATCGCTTTGGAA
 GCATCTGAACGGAAGCGCAAGTTCAGATGCTGTTTCGCTCATTTGTTTTCAGCGATTTC
 TCAAAACGAGCATCAAAACATTGCTGCTTTCGCGTACTGGAACCGCTGCTGCTGCTG
 TAGGAATACGCTGTTTCGCGCGACGCGCGGAGGATTTCTCCACAGCAGGATACACGCG
 CATTCAGCTTTCAGCTGCTGTTTCGCTGCGCGCGCTGTTTCGCAAGCAACCAAC
 GCGTTATCGCGCTGCGGATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 CGCGCGCGCGGATGCTGCTCAATAAATTTGCGCGGGAATTTTCAAACTATGCGC
 CTGACCAATTTTATCGCTTTCGCTCTTCTATATTCGCGCAAAATACAAAGCGTGG
 CGGAATTCGCGCGCTGCTACACCGCGCTTTCGCTCTAAACTTTCGCGCTGCTGCTGCTG
 CGCTAATACCTGTTTTCGCTCATTCGCGGATATCTGTAAGCTGTTTTCGCTTCTCAAA
 AGCGCGCGGACATAATGCTGCTGCGCGGAGCGGTAGCGCGCTTTCGCAAGCGCAAGCGCG
 TCGGGAATTCAGCTGAGTGGGCAATATCTGCGCGCGCTGCTGAGCTTTCGCGGCGAG
 AGATTTTCGCGGCGGCTGCTGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TGAATTCGCTCAATACCTTCTTACCACGCGGTGAGCTGCTGCTGCTCAAAATTTTCG
 TAGCGCGCAATTTTCGCGCGGCTGATTTCAGCTGCGCGCTTACTGAGAAAAATGCG
 TCTCTGCTGCTGCTTAAATATCTGATGCTGACGCAAGCGCTTCAACAGCTGCTATGCGG
 TATTCACACCGGCTCGCAATATCGCGTGGCGGCGCTTTCGCGCGCTTTCGCTGCTGCTG
 CGGAATACAGCGCTTCCCAACCTGCTTTCGCTGCAACCGCGCGCGGAGCTTCAATGCTG
 TCGCGGTTTTCGCTGCGGAGGCTTTTTCGCTGATTCGCGCAACTTTTCGCGCTGAA
 ATCAGCTTTCGCGGAGGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 TCTCGGAGAACCGCGCACTTTCGCTGATTCGCAAGCTGCTGATCTTTCATATTCGAT
 TCGCTGATTCGACGCGTCCCGCGCGCTGCGCGCTATCCGCTCAAGGATCCCTGACGCGTA

Appendix A

-356-

AACGCGCTGATTTCGGGCAACACCGCTCGACGAAACGGCGACACGGTTTTTATCCACGGCG
CGTATCGAGTAGCGCGCGCTCGCCCGGTTGCCCTGTTCGACACCGCCACGCGCGGATCG
TAGCGCGTCAGGTCGGGGATACCGAGTACCTGTTCTTTGTTCACGCTTTCCGACGTTTGG
ACGATTTTGGCCAAACCGGTGCGCTTCTTCGATCGCGCTCCACCTTTGGCGGACCGAGCG
GTAATCTCTTTACAGGATTTGGGTCTGCGCGGATCAGGTGTGCGCCCGCCCGCTTGGGCA
GCATAGCGCGGAAGCGGCTTGCATGCGCCAGGAGTACAGGTTCAGCGGAACCGCTGT
TCTTATTCATCTCAGTCTCGCTCCTGCTTCGACGAGATACGACCGGCAAT
GGTGTCTTAACTCAGTACTTACCTTTTCCCAACATCAACTTCAGCATCACTTCAGCTT
CAACATCAACTTTATTTTCAGTACCTTCAGTTATACCAGAGATTTCOCATCATTTATGA
AAATAATACCGCCGAATTCCTCGCGCTGCGGGCGTAAATCCCGCTTCACACAGAGAT
TACTAGCTTGGAAAGTTTGGGGTCGCTGMAACATTTCGCCGAAGATTGATCGCGTTCT
CCCGAGTCGCTGCTGTCGCGTGAACAACGTTGCCCTCAATCTTGCOCCTTTCAATATGGA
AAGCAGGTTTTCACACGCTTTTCTCGCTCAGCGCTTCGCGGAATGCGATTTCCTGCCGAAT
CAGCGTAAATACCTGCTTTGCCGCTTTTATCCCGGCTGATTCGCAATTGAATGCGTT
TGGCGATACGGCTTCGCAATCGCGGATGATGCTCTCTCAGTTTTCGGAATACCG
TTTCGCGCTGCGGATACCTTCAGGAAGAGTCTGATGCTCTCGCTTTAGGGGCTTCGCG
GAGCGGGCAGGATGCGCTCTGAACGCTGCGCGCTTCTCTGTCGGCGATTCTCTTCGCG
GTTCTTCAGCTTCATCTTCACCTTCACGCGTCTGCTCTCTTCGCTGCTCTGCTCTTTA
CGCTGCGCTCTTCGGTGCTCTTCATCTGCGATTTCGCTCTGCGCTTCCTTCACGCTAT
CAACCGCTGTATCTCTCTTCGCTGCTCTCTGCTCTGCGCTCTTCGTTTGGCGGGGGGAC
GTTCGGTTTGGCATCGCTCGGATTTTCATACGCTCAGAAATCGGACGAGTTTCGGATG
TCGTTTTCTCAGCATCGCCATCTGATGGTTTCTTTTACCAAGAGATTCG
GCCCTTCGACAAAGATTTCGCGGATGACCAAAATCGGGCATCAGGAATGCGAAACT
CAGCGGGATTTTATCATCTTCGCTCTCAACGGAAATTTTCAGAGATCCAGATTTCGG
TGTGTTTTCGACGACGAGCGGACGTTTGTATCTGCTGCGTTTCTGCTCTGCTTTTTT
GTTTGGCTCGGAATACGCGGAATACGCTGTTGCTGCTGATGAACCGCTCGCGCAAGCT
CTCTCCGTTATTCGCGGAAAAACCGCTCAAGCGCGTATCGGATCGGATGATGGAAGA
ACGAATATCTTTATCAGCGCTGTCGCTCTTCACCTCGGTGAGCTTTCGATTCGATCGCGG
TAAGGCGTTCGCAATGCGCTGTAATGCGTTCAGCTGCTTTTTCGGCT
CATTTGGATTACTTTTATTTTCGACATCTGATTTTAACTCAGCTTCGCATCAGGTTT
TGTATCACAAAATCAACGCTATATTCCGACGAGTCTTTTCCTCTGCTCGGCATCCCTAG
CCTCATAAGAGTTGCCCAATTTTCATACCAATAATTCGTTGATTAACCAAACTCCGTCAG
TGGAAACCGCTTACCTTCGCTGATGACGTTTGGCATCGGTATATATGCAAGTACCGCG
AATATTGCAACCGCTTCGCGCGCTCGTAAAGATTGGGAAGGACGTTCTCCGGAATAATATA
CAACACCGCTCATACCTAAATCGGTTAAACAACCTCTTACCATCAGAAGTCTTTCTTTTT
CATTTATCTCTCTGCTGATGTAATACATCGGACGCAATTCATATGAT
ATTTTCTCTCTCTCTTTTCGATGTAATACCTTCACATCAGATACCGTTGCTGATTT
TCTTTTTAAGTTTTCGACGCTGTTCTTCAGCGTACGCTCTAATAACGAGATATCTCTCT
CTTTAAGCGGCGAGATGCTCTCTGCTGATGCTTTGCGGGAATTTCCGCTACCGCTCTGCT
TATAGGAAGCAATATTCGCGCTTGGCAGCGCATTCGCGCACGAGCGCGCGCGGTTGA
CCGCGCTGTTTCTACCGAAGACCGCGCAGGGCGCGAGTGGGAACGCTCTAGATTGGA
AGGTGACGGGGTACGCGCTGCGCGTTGATTTCGACACAGGCTGACGCGGAATTCGCGG
CGATCAGAGATCTTAAAGTAAAGGCAACAGCAATCGCGCATTAATTCGCTTACACA
TCCCTACTTTTCGCTATTTGATTAATTAATATCATATTAATTAATGACAGAT
TATCAACCGCTTTTATACGTAATTACAANAATCAGGCAAGCGACGACGCGACACA
GTACAGATCATCTTCGTCATTCCACGAACCTTACATCCCGTCATTCCACGAACCTTCGAC
CAGCTCATTTCCACGAAGTGGGAATCCAGTTCGTTGCGTTTCGCTTTGATTAACTTCG
GGTAACCTTCTACTTCGTCATTCCACGAACCTTGCATCCCGTCATTCCACGAAGTGGGA
ATCCAGGACGCAAAATCTCAAGAAACCGTTTACCTGATAAGTTTCGCGACTCAGAGACC
TAGATTCCCGCTCGCGCGGAATGACGCGATTTCAGATTGCGCCATTTATCGGAGACAC
AGAGCGGCTTTTCGCTCATTTCCACGAAGTGGGATGCTGCTGCTTTCGCGTTTCGCTGAT
TTTAAAGTTTCGGGTAACTTCCACTTCTCATTCGCCAGAACTGGAGATTCGATTTTTT
GAGTTTCAGTCAATTCCGATAAATTCGCTTAGCATTAATGCTAGATTTCGCGCTGCGG
GGGAATGACGGAATTTAGGTTGGGGCATTTATTTGGAAAGCAGAAACCGCTTCGCGCT
CATTCGCCAGAAATGGGAATCCAGTTCGTTGCGTTTCGCTTGTTTAAGTTTCGGGTAA
CTTCGACTTCGTCATTTCGCGGAACCTTACATTCGCTCATTCCACGAAGTGGGAATCCA
GTTTCGTTTCGCTTCGCTGTTTAAAGTTTCGGGTAACTTCCACTTCGCTATTCGCCAGGA
CTTCGATCCGCTTTTCGCTGCTTTCGCTGCTTTCGCTGCTTTCGCGGAGAGAAAC
TTTACCTTAGAAGTTCGCGACTTACAGGACCTAGATTTCGCGCTTATATGATGCGCTTA
TCAAAGGGGGCATTAATTTCTTAACATTCGCCCTTGACAGCCAGTGAAGGGGCTTT
TTTATGTCAGCATGTAATGTAATTTTCTGCTTCTATTTGGAGAAATTTAAAAAATCA
GATTCTTCGCTTTTTCGTTTTATCAGTTTCAGCATTCGCGAACCGCATTAATCATTAAT
CAAGAGAAATTTTCAAAGCTTTATCAGCGCTTCGATTATATAGATTTCGTTGCTTGAAT
TTTCAGTGAATTATCAACAGGATGTTGCTGCTTTTTCGTTGATCTTTAAAGTTTTCG
CAGGATTTTCGCTGCTTTCGCTGCTTTCGCTGCTTTCGCTGCTTTCGCGGAGAGAAC
GCTCAAGCGCCCCCTGCTTACAGCGCGGGGAGCAATTAANACCATTCGAGAG
TAGTCAACGAATGAGTGAAGTGAATTTCTCAACACTTATATTCGCGAGGAAACGGGA
GCTTTTGAAGATTCGCGAGCAAGAGTGAAGCAAGCGGGTTTTTGTGATTGGAATTC
ATTCACATTCGATGAAGTACTTTTACGAAAGTTTCGCGTTGCCCTTTATTTCTGATGCT
TGAATCATGTATGTATTAAAGCAAGAGCTGGAAGAAATTCAGGTTTTCGATTAACCGG
CAATTCGAAATCAGGCGGACCAAAATCTATGAATCATGATATAGGTTAGGTTTCGATGGA
TGTGATATTGAGAGAGTGCATTTCGAGAGTTCAGGCAATACGTTTTCGATGATGGA
AGGTACTGTTGTCGATCAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TCAATTGATAGCAAGATTAACGCGAATTCAGCTAGCACTGATTTTTTTCGATGGA
GTACACGCGGATCAGCGCTGTTGATGATCACTAATGCTTTTTTTCATACAGCAATCA

Appendix A

-357-

AAGGCCGAAATCTGAACGATCGGTACGGCTTGGCGGAATGAGGACGGGACGGCAGAC
 ATTTTATGTAGTTCGCAAGAAAAATCTCGCTTTTGTCGTGTTTATGAGAAAGGCAGGCA
 GCTTGAGATTAAGAAAGCAAAATGGGTAAAGTTCGAGATCCAGTTTAATATGAGATAT
 AGAATACCCCTTGCATATTTAATAAATCAGGCTTCGTATTCCTCGAGCTTTTCCAAT
 TTGATGAAAAATTTAAAAATATGCCGGTCCCGAAGGTTTGATCAGAGAAAAAAGAGCT
 TAATTTAACTTTTCGAGCATAAATTCGATTTTCGCGAAAAACGGGTGGAAACGTGTCAA
 TTTCAATGATTAATCGGCTTGATTAATTCGCAAAATTCGGAATTCGTGATTTAAGAGCAAT
 GGGATTCGCAAGATGTTAGAACCTGA AAAATATGCTCGGAATGTTAGAGGACGGTT
 GAACACCGGTTTATTCATGACACGCGGATATGATTGGAAATGAACTTGNATGAAT
 GGGGTTATTCGTTTTAAAAATTCGACAAATTCGATAGGAAAAAGGCTTTTATGTC
 TGATTATGATGTCGAGAAAGAAAGAAATCAGGAATATTAAGTAAGTTATCATCA
 AAATGTAGATTATGATTTATTTTAAAGGAATCAAAATGTTTAACTAACTCAACTGTA
 ACTTATCTCGCACTTTTTCGGAGCGAAAAATTCAGAGCGGAATGATGGCTTCAT
 ATGACACTTTCGCTGGTTGGTTCAACACTTTTCGCGGACAGTGAAGATGCTGTT
 GATTACCGGACCAACAAATGAAGTTCGGGACAGTANGAATTTCTCAAAATAGAAAT
 CTCAAATACCGGTGCGAAGTTATGTTAAGCGTTGAAATGACTTCGACAGGTAAAGGCAATG
 GTTCTCTCAATTAATGATTTCAGGTGCGAGAAAGCGGAAAGGTTGATTATGAAATTT
 GAAGAACGTTTCATAGTCAAGACTTGGAAACGATGACTTATTTATCCCGATCCTTTC
 GGTGATGTGGGGTTTACTCAAAATATTAATCAGAGGTCAAITTTAAAGCTACGAAGAT
 GGGTTGAATCAGGATAAATGAATATAGCGGAGGATCCAGATATTCAGTCTTTCGTA
 AATTCGGATTAAGAAAGAAACAGGCTTCGGCGGGCTTCGCACTTTCAGAAAGCGG
 CAAAGAAAGAAATATCATGAAGATTCGCAACTGATTAATTCAGGCTGGGTCGCT
 TGTATGTTCTTTCTTTTCGCAACTCTCTATTTTATCGGCTAAAACGAGATTCGGAA
 AAGACTTCGTCGGATGAAGCAAGTCAAGAAGTCGCTTATTTAAATATCAAAAAGGA
 AAAAAGCATGAACATCGTAAAAAATACGCTGTAAAGACAGCTTCGACGCGGTATCT
 TCACACCGCCATTTGTTATGCGAGATACCTTTGATCATCCGAGATTTGTCAGCAAGTAG
 CGAATTAATACGGGTTTCGCTGCTCAAGTGTTTCGCGCTGGGTATGGCGGCAATTCAGG
 TGATCTTSCAATGCTGCTTCAAAATGCTGGAGCATGATTAATGCTTCAATAA
 CAGGTGAAGAAAGGGCGCTCATGAGATTCGCGCTATCTGCTGCTATGATTAATGCTCA
 CAAGATTTCGAGCGACAGACTATTTATGTCCTCCCTCTCTACTGTACCCAGGACG
 GAAAAATCATCGACCGGAAAGGTTGGGCGATTAATGATTTTGAACGGAAGCCGGTTA
 CGTTGCTTATCCGGAATGTTCAATTTTGAGCAGATAAAGCAAGGTTCTTATGTCGGTT
 CGACGGTTCTAATCTGTTGTGTGATCAITTCAGGTTTCAGGCTTCTGATTAATTTTAA
 AAGCATAGGCAAGGTTGGGACTGATGATGATATAGATTCTCGGTTCTTCTCGGTTT
 CTCTTTGGCTTTCTGCTGCTGGCTGTTTGTGATGCTGCTGATGATCGGCTTTTAA
 CGTGTTTAAATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CTGATTCACATATTTATAGAGATTTCACACAGCGCTAAATTTATATAGGAATGATTA
 GAAAGGGGTTTTTAAACTTCGTTTTCATTGATATTTTAGGAATTTCTTCATCGGTT
 ATGATAGAGATTTTATAGAAATTCATTCCTGATTTCTCTACATTTAATTAATATAG
 ATGAGCAAAATGTTATGTTTATATCTAGGGCGAAATTTTAAAGATTATCTTATGCT
 TTTAGTTTTTTTGATATCAAAATTCGATTGGCATAGTAAATGCTCGGGTAAATTTGAT
 AGGTTGAAGTTTATGATGATGGCAGATATTTAGGATTCGAGGTTTCAGATGACAAAAA
 AGAAGAAATTCGAAAGCTGATTTGATAGGAATTCGGAAGATTTTACTTCGAAAGCT
 CAGATTTAAAGATTAGCATGTATCTACCGAGCATCAAGTACGGGTAAGGTACGTTGCT
 GTTGATCTTCACAGTTTCGCGGCTGGCGATTGCGGGGGGTGCGCAACTTTCGCGCG
 TTAGGGCGAAATTTAAGCAAGGGCAGTTCTTATGTCGGAACAGCGCTTTAGCCCAT
 GACGTATACGAATCTTCAAGAAAGCATACAGGCACAGGCTACCAATACGACCGCGAA
 ACCGACAAATTTGTAAGAGGCTACGAATATAGTAATTCGCTTTGTCAGGAAGCAAAAGA
 CGTATTAATGAACCTATGGCTGCTACGGCTGACAGTTGATTTAGCGGCTTATGTCCT
 GATGACAGCATGATCCCGGAAGTAAAGAAATGATGAAGGCAAAATGATAGGCTGCGCA
 CGTCCGTTTGGAAATTCGGAAGCAAGTGAATTAATTAAGTTAGTTTGTGATGGAAT
 AATTTTGTTTAAATAGTTCACATTTGATTGGAACGGCGAGATGCTGTGCTCAATAAA
 GGTGATGATTTAGAAATGGGCGTATTTTCCCTTATTCGCAATTCAAATACAAAGAA
 GAAATGATGCAAAAAGCTGGAAGATTTATGCTTGAAGCTGATGCGCAATCCGAC
 AAATACATAAAGGCAACCGGTTATCCCGGTTATTCGAAAGATGAGAGTCGACACCGGA
 ACARAAGTGAATATGGTCCGCTCACGACAGGAGCGGAATCCCGTTACGGTTGTCGCA
 ACATTGCGAGGATTCGGAAGGACACACCGGTGAGTGTCAAGTAATCCGCGCTCCC
 GATTTACCGCTCCGCGGACGACACCGGCTGAGGCTGAGGCTGCGAGTATGCTGCT
 GCGCAAAACCGCAACCAACCGCACCCCAATCAGACACCGGACGAGCGCCATCCC
 GAACCGACACCGGATTTGAATTCGCGATGCAAAATCCGATACGACGACAGCGCGGACAC
 AGACCGGATTTCCCGCGCTTCGGGACGCAACAGCGCAGGACGCAAGACGGAAG
 GACGCGAAAGATGGCGGCTTTTGCATAATTCCTCCGACATTTCTGCTTGCAGACAG
 CTCGCGCGAGTCCAAATCCGCGAGAGATTTAAATCTGCGCTCTGAACCGTCAATGTAGAG
 TTTCAAGAAATCAGAAATCTTCAGATTCGCGCAGCTGTCGCGACGTGCTACTTTTCA
 GTACGTGCTTTCGATTAAGCAGGAGTTCGCTGAGTTTACAGTACGACGACGCGAGC
 GCGCAACCGCTACAGGCTACAGGACGCGACGCGCTGCTGGCGGACGACGCGGCG
 AAAGCGAGGCGAAGCACCGCTAGGCTAGGCGGAACCGACCGCTGAAAGCGAGCGCAAG
 TACCGCGCTTGGCGGAAGCATGTTAAAGGACGCGGACGCGCGCGGCTTCAGT

Appendix A

-358-

AACCTTCTTCAGCGAGCGGACGATGTCGGTAAAGAACTGTAAGCGGGCTTTTTTCG
 CCTTTATCMTCTTTTTGGATACCCCTTGCCTCCGCGCGCAAGAAACACATCTCTCGCGCA
 AGGGCAGGTGGTAAGCGCGCCCTTTTGGCGCGTCCCATCCCGCGCGGCTCGCAAG
 TGAGACTAGGGGTGTGGGGGACTAGTCCCGCGCAAGCTTCAGCTTCGGAACTTTGG
 CGGAAGCGAGCGGAAGCAGCGCACTTTGCGACGATGTGCGAAATACCGGAGAAGCGCG
 GGGGGATTGGCGATAGCGCCGAGGGGGGTGTCGCCACAGCGCGCGCGCGCGGAATGCG
 GCGCAAAATCTTCAGATTAAGAAATCTGTTTAAAGAGGACCGCTCGCTTTAAGA
 AGCAACCACTAAATGCTTGGCGGATGATGCTCTTTGATCAGCGGTGCGAGCGG
 GTATATCTGACTGATTAGCTTGATGGCGGTAACTATTACAGGGGTGATAGATTTGGTAG
 CCCATTTTCAGCAGGCGATAACCAATAGCAATACGGGCGCGCTCAAGCGATGTCGACG
 TTTTTTATATAAGCGCGGTGGAACTGCTTTAAATATCCGTGTTGGCGGATCGCCTTTTA
 TTTCTGCACTTAACCAAAATGA CAAAATACGAACTCAATCGGGAAGAAAAATAAATGG
 CAGAGATCTGCTTTGATACCGCGCACGCCGGTTCAGGGAAAAATCAATAAATGTTTCCGA
 TGATGGCGAATGATGAATGTTTAAAGCTGTGAAGAAACGGCATACCGCTAAATGTTTA
 CGACATTAAGAGGCTTGAATACCGCGACACTCTAGAAAGGAGGCAAAAGCTGC
 CGAAATCGACAGATGAGCAGCTTTTCGGCGCATGATATGATCGAATGGAATAAGAGGCCCG
 AAAATATCGGCTCTATTGTCACTTGTAGATGAAGCTCAAGACGTATGCGCGCGACGCTCGG
 CAGGTTCAAAAAATCCCTGAAAAATGTCATAAGCTGAAATACGCAACAGCATCAGGGCATTG
 ATATATTTGTTTTCACCTCAAGGCTCTCAAGCTTCTAGATCAAAATCTTAGAACGCTTGTAC
 GGAACATTAACCAATCCCTTCAAAACAGATGGGTATGCGTACGCTTTAGAATGGAAAA
 TATTCGCGCAGCATTCGCTAAAAATGGCATCAAGCGCATTTCCAGTATCTATACACTGG
 ATAAAAAGTTTATGCTTGTACGATACCGGAAGTTATCTCGTAATATAGGTCAGG
 GGTCAAAGTGGTTTACACTTGCACATATAGTATTGCTGATTCGCTGTTTCTCGCGC
 TGTCCTATAAAATGTTGAGCAATTCAGGAAAAAAGAGGAAGAACCCGACGCAAGAAAT
 CGCGCGCACAGCAACAGCAGGCACTACTCCGGAATAAACAGAGGCGAGCGGTAAATTA
 ACGCCAACTTTCAGCGACATATGTTTGTTCGACATTTCCGAAAAACCGAAACCAAGC
 CGGTTATTAACGGTGTAAAGCGAGTAAAGCACTTTGAATATATAGCAGGCTGTATAGAG
 CGGAGAGAAGCGGATCGCCCTGCTATTGTCATCAAGGACGGCATCAAGAAAGTGAAGG
 AGTTGGTGTGCACTATCAAAAGCGGTGCTTGTATACCTATCAAGAAAGAA
 GCGTAAGCGAGGATTCAGCAAGCGCGCGCAACATCTCGGACAGGCGCAAGTTGCA
 CATTGGCGGAAAAACCGTAGCAGCACTTAATCTACGATTAATGGGAAGAACCGCGCAAC
 CGTTTGAAGGAATCGCGCGGGGCGGTGTCGGATCGGCAACCTCAACAAACCGGCAAGAGA
 GAAAAACACCCCTTAACCGTTTGAATATAGACGGTTTACGGGCTTTGTTTTCGCGCAAA
 GCAAGGGCTAAGCGAGTCAGGACGCAATCCCGCAATGATTAATAACAGACGCGGTAGAAA
 TGCGGGCTGCTTTATCCATCTCGAAGATTGAATATCATCTAGCGGTATCAAGGCTGTAT
 TAATATAGGAAATATCCAAAGATATATAGCGGCTGGACATCTCAAGAGACACATAGAC
 GACAGATTGATATATCAAAAGCGATTAATGATGATATTTAAAGATATATTTGATGAT
 GGATTAACACCTTTAGATTGTCGATAAGGCAACGAAATACGAAAGTCTATATGCGG
 ATGACGGCAACAGGCATCTATTACGAAAGCGCAGCAGATATGCTTCTTCTACTATATCT
 GTTTACGTTTATTAATCCCTTAAAAATACAGGACTACGGAAAAAGCAGGTTTAAACGTACC
 AAAACCGACAAAGCAGATTCAAACCTGTATAGCAGCACTACATAAAAGGCATCAAGATACA
 TTGATACCGTATCAGATATCCCAAAACAAAGCACTGCAAAAACCTGATTAACTTAAAAAT
 CAATTACATCAACATCGAGAGCAAAATAAAAACCGTCTTCATAGCACTGAAGACACTTC
 ATAGGAAACATACAAAGCTTTATAGATGATCAAGGCAAGATGGAACGCTAAAA
 ATACCCATATCCGAACAAATCAAAAACAAACGCAATTAACCATTAACGCAATCTTCAA
 ACCATCCGAGCATAGGCAAGACACCGCATAGTCTTTATGGGCACTGACAGAAAAA
 CATTTTAAAAACCGCAACAGGTTTGTATCTCTATGCCGATTAAATCCGCAATCATACAA
 TCAGGCAAGCGTAAACAGTGGGGCAGATTGAGCGGATACGGAACAGCAGGATTAATA
 AGTACCTGTATATGCGCGCGCTTTGTGCTTACCGTTTAAACGATTTCGAAATTAATA
 AATAATCTGAANAAGCGGGTAAGCAAGATGGTAATCATCGTTCCGATTAATTCGCAAA
 CTCGCAAGCTCGCATTAATCAATTAACCGCGCACTTACATTCGCAAGATCAAGCAACCT
 GATTGATCACTACATTAACCAAAATTAACGGTTACGCAATATATTGTGTAGACG
 TGCACTTCGATATCGTAAATAAGCTAAATAAAATACAAATATAAATCAGTATATGCA
 ACTTTGTTTATTTATTTTGTGTTGACGGGCAACATNTACTTCGCGGGATACGCGGATT
 TGAGATTGCGGCACTTTATCGGCAACAGAAAGCGCTTCGCGGCTCATCCCAAGAAAT
 GGGATCTAGTGTGTTGCGTTGCTGCTGTTTAAAGTTTCGGGTAACTTCCACTTCTCAT
 TCCACGAAAGTCGAATCCAGTTTGTGATTTTACGATCTTCGCGAATATGTCCTTAG
 CATTTGAATGTCGATTTCGCTGTTTAAAGTTTCGGAATGCTTACTTCTGATTCGCGC
 CATCGCGCTTATTTGATCTTACGATTAATTAACGCTTACGCGGCTTGGAGATCTAGT
 TTTGATGTTCACTCATTTCCCGATAAATTGCTTAGCATTTGAATGTCATAGATTCGCGCT
 CGCGGGAATACGGGGATTTAAGTTGGGCTCATTTTGGAAAAAGCAGAAACCGCTCCC
 CCGTCATTCCCAAGAAATGGGAATCAGTTTGTGACTTTCAGTCATTTCGGAATAAT
 GCTTTAGCATTTGAATGCTAGATTCCCGCTCAGCGGCAATCAAGATCCATCCGTACGC
 AAACCTGCGCACTGCTGATTTCCGACGAACTGCGATCTCGCTCATTTCCAGAAAGCGGGAAT
 CAGTTGCTGCGGTTGCGCTGTTTAAAGTTTCGGAATGCTTACTTCTGATTCGCGC
 GCAAGCGGGAATGCTGCTGCTTACGATTTAGAGATTAATGATTAATTTGAATCTGAT
 CCGCTCATTTCCGCAAGCTGGGAATCCAGTTTGTGATTTCACTGATTTCCGATAAAT
 TGCTTTAGCATTTGAATGCTAGATTTCGCGCTGCGCGGCAATCAGAAATCCATCCATACG
 GAAACCTCCACAGCTCATTTCCCAAGAAATGGGAATCTAGTTGCTTTCGTTTTCGCTTGT
 TTTAAGTTTCGGGTAACTTCCACTTCTCATTTCCCAAGAAATGGGAATCCAGTTTGTG
 AGTTTCAGCTCATTTCCGATAAATGCTCTTAGCATTTGAATGCTAGATTTCGCGCTCGCGG
 GAGTACGAGATCTCATCATACGGAATCTGATCTCGGATTTTCGCAAGAAATGGGAAT
 CGAGCTTTTGAATGCTGATTTCCCAAAATGCTTGAAGATTAATGATTAATTTGAATCTG
 CGGCTGCGCGGGAATACAGGATTTTAAAGTTTCGCGGCTTATTTGGGAAAAACGAAAC
 GCTCCGCGCTCATTTCCGAAAGTGGCAATCCAGTTCGCTGCTGTTGCTGTTTAAAG

-359-

[illegible]

Appendix A

-360-

CGGCATAACGGTTGTTTGGCTCGGCGCACTGGTTTTTAATCCATTCTTTTCCCTGAA
 GCATATTCGGCCAGATGTTCCGCGTACGTCAGCCAGCGGCCCTTTGGCAACAGCTGTCGTGC
 CGCCGGTGATTCACAGCGCGGSTATCTTCGGGTTTAATGCGACAGGTGGAAACGCT
 GCTTCGCCGCTCTTCAATGCCGTCTGAAGGAACGGTTTCCCGAATACGGTATTCCG
 GCACCATTTTCTGATTTTCGGATGACGAATATGATACCGAACCTTTAAGCAGCCGGA
 ACATTTCCGCGACGGAGGCTACGATGAGCTGTTTGAATCGCTGGCGGCGACACCACT
 CAGCGGCTGTGGCAATCTTTCAAAGCAATGACGCGCTGCGCCGCTGCTTGTGAATC
 GATGCTGACCTGCGCGGCTATAGACGCGATTTGCTGCTACCGCTTCAACAACTGGCT
 GCAAATCCGCAAAAGCGCAACCGGATATGCACTACATTTGGCAACATATTGTCACGC
 GCTCTCTCGAGGCAATTTAAGGACGTTTTCAGATAGAAGCAAAATCTGTGTGCAGTT
 TGGCGGTTTCGGCATAAGTCAGCGTCTTACCATGTTTGAAGAAGCAGGTTGGTCGGCAA
 ATTTTTCACGCTTTTGGCGGAATAGTGCCTGACGGAATGTATTCGTGATGTCGATTT
 CGGCATGACGCGCTCTCTGTAGCTGTCTAACCAAGATTTTTCATAGTATTGGCTCTTT
 AAGTGGATAGGCGGACCAATGGCGCTGTGAAGAGCTTTCAGACGGCATACCTTTTAT
 CTGTGATGATGACGGCTTCTCGGCTGTTCGGATGATACGCCCAAAAGATATCG
 CGCTGCTAACGACGGCGGACTGACCTGGGTAAACGCCCATTCGCGTCTGCTCAAAACG
 AGCTGCGCGGTTTATCATCCAAATAGCGCAACTCAAGGCGGCTGCCCATACGGTAA
 CGCGTTTTCGAGGTATAGCTGCCCTTCGGGCGTTCGGGAGCGTGAACCTCAAATCG
 TTCATCAAAAGCTGGCGGATTAAGCAGCGGATGCTGCTGTCTTGCACGCAATCACT
 TCGTTTTCTCCAAATCTTTAGCGCCACAAACACGCGTTCCGCGCGCGCCCAATCCCG
 AAACTTTTCGGCTTCGAGCGGTGAGACATCAGCCCGAGCTGTTTCGGCGACGTTTTG
 CTTTCGGCGTACACTTTTACATTTTCGGCTGCGAGGATTTCTCGCAACTCCGGA
 AACGGCGCTTCCGATGAACAGATGCCCTGCTGCTTTTTCAGCGGCTGCGCAT
 TTGAATCTGGCGAAGCGGCCACTTCGGGTTTTTCAAAACGCCCAACGGMAAATC
 GCGCGCTCGAGTTGGAAAGGCTTGAGGCGGTAGAGCAATACCTTTGGTCTTTGTTTCA
 TCCAAACCTTTGAGCAGTAAATGACGCGGTTGCGAACTCTTTCGCGCATACGTCGCC
 TCGGGCATGCTATCCGCGCCCTGCCCTACCGGCTACTCCAAAGCAATTTGAATTTGATT
 TCGCGCTTGCACCAACATTCGCGATTCGGCTGCGCGGCGCTGATTCTTTCGAAGAAA
 TAAGCAAGACTTTTGCTCTATATTCGCGGAAATTAAGCATGCGATTCGATTCGCG
 ATATATTCGGAAGCGAGCGATGCTGGAACGATCTGTTGATGCTGCAATATTCTGCG
 TTGCTGCTGCTCTCCGACTTCTCATGAACACCGCGGCTTGTATACCGCTGCTGCTG
 AGCAGCGCGCGGCTTGAAGGAATGACACCGCGCGAGAGCGCCGACATCATATTGGAA
 GGGTTTGTCTGCTATTCTATGCTAGATATGGTGAAGACGGCGTTTTTAAAGCGGA
 TTTTAACACATTTAAGGCGGCGCAATAAATGCGCTGTGAAGCGCCGGGTTTTTCAGA
 CGGCATTTCAACATTTTACAGAGATTTAGTGCTGATGCGCTTCCGCTGTGATGACG
 GGTTCATTTGCGGATTCGCGGCTTTTGATCTCCAGTTGAGGATTTGGCTCTTGGCT
 TTTTAAATTTTCGCGGCGGATTTTCGGCGCTTTTTCATTTGATTTGCTGCGGAT
 TAAACATCAATGATAGCTGCCGGTTTCAGTTTCGCTAACGATTTGGCTTCCAAAGCA
 CGCCGCTCTGACTTCGCGCATCCGATCACCGCGCTTGTGCTGATTCGGTATGCAGTT
 GCAGCGGCTCGGCAACGGCGCTGCTTCCGCCGAGCAAAAGTCTTGTGCTGCTGCT
 TGTGATTTTCATCAACGCGCCGCTATTTCATACCTTCGACGGTGGTGGCGGCCAG
 CGTCTCAACGTGACTCGGCGGCGGAACCGCGCTGCCAACTGCGATCATACGCG
 CGCGCAATTAATTTTTCATCTTTCGCTCTTTATAATACAGACGGGGAATGTGCTTAAT
 CTATAGCGGATTAACAAACCACTACAGCTTCTGCGCTTACTCGACAGAGACGA
 TCTCTAAGCTGCTGAAGCACCAGCTGATCGGTTCTGCTACTATTTCTAGCTCTCGCG
 TTGCTCGGCTTCTCTGATTTTGTAAATCCATATACATACAAATACTGCTCGGAATTT
 TGATGTAGATTGAATGAATAATAATACACATACTAATCCTAAAGGATTACAAATCTG
 CTGCAAGCGTTTACCGGAACGGCGACAGCGCAACCGCCGCCAATCATAGCATCGG
 AACAAATGTGGCGGAGAACTCGCTCTTTGGGAGTTTGGCGACGTCGTGTTTTCGGTC
 GAAGTATGATGACGGCAGCTTTCGACGCGGTTGTGAACGTTGACAAATACCGCACACA
 AAACCGCGATATACCGCGCGCGCGGCTTTCGAAACCGCAAAAGATTCGGCG
 CACACACGATGCTGCTACCGCAAAAGCTTTCGCGGCTTTCGATGCTGAAGTACGG
 CGCGCATCCGCTCTATCGATAGCGGAATGCTTAATGAGCGGCTGATGCGGCTTTG
 CCTTTTTTTTCGCGGCTAGAGAGAGGTTCCATCGTATCTTTCAAATGTTCTCAA
 TATAGTGGATTAAACAAAACCTGACGCGGTTGCGCGCGCTTAGCTCAAGAGACGATT
 CTCTAAGGTGCTGAAGCAGCGACTGATCGGTTCTGCTACTATTTGTACTGTGCACTT
 CGGCGCTTGTGCTGATTTTGTAAATCCATATATATACCGCTTGAAGAACGGCGCGG
 GGCTGCTGCGGATTAAGCGATACCTCGCGGCTCAGAGAAACCGCTCGGCCAA
 CTAAACGCGCGCTGCTGCTGAGAGGCTTTCGACGCTGCTGCTGCTGCTGCTGCTGCT
 ACGCGCAACCGGCTGCAACATTTGCGCGCACATCGAAACTTTTGTGTCATTAATTT
 CTTGGAATCCGCTCGGCTGGTTAGCTTGACTTGGTCAGGTTGCTGCGGATAACGTC
 AACCGCGCAGCAGGATGCCCGCCGTTTGAGTTGCGGCGGAGCGTTTCGCGAATTCG
 GGTGCGTCCGCCCAATTTGCGCGCACGCGCGCGCGCTCGCGCAAGCTTGGCGGCT
 TTTGCGCGTTTTCGGGATGCGCGCAAGATAGGCGGACGACTTCGCGCGCGATATCA
 GATGCGTTTGTCAACTGTACGATTTTGGGAATGACGTTGCGCCATAATGTCGCGG
 ATCAAGCTGCGCTGCTGCTGAGAGGCTGCTGATGCTGGGCTTCTTGGTGAGG
 GGAATATCCCATACGCCCATGCGCTGAGCGTTTGTATGATGATGCGCGGTTCTT
 TCAAAATGTCGCGGACATCGGCGAAGCGGCTGTTACGAGCTGGCGCGGATAAGCGG
 TGAAGTTCAAATCGCCACTTTTCATTAAGTCGCGGCTGCGCTGCTGCTGTTAAAGA
 CCTTCGCGCGCTGCTGCTTCCGCCAGCGCTCAGTAATTTGGTGGGCTAGAGATTGCA
 TATGACGCGGATGCTGATGCAATTAACGCGATCAATGCTTCCATGCTCAATGCTGAC
 CTCTGCGGATTTGAAGACGATGATCATCATGTTTTCGACCGCAAAATCAATG
 CAGCTGCGCTGCGCTGCTGAGAGCGCTTTCAGGATTTTCGCGCTCAATGCTGATG
 ACAGCGCGGCGGCTTTTGGCATTTGCGGATCATCGCTAGCTGCTGCTTTCAGG
 TTTTGAACCTGGCATGGGTCGGGATAAAGAGACTTTTCATCATATTTCCCTTCCGCT

Appendix A

-361-

GTGCCGAATTGCCGCATTTCGGGGTAAAGGAGAAATTCGCCGAACAATATTCAGAC
 GGCAGGAGTGGGCTTTACTTAGCGTCCAAAGAGCTTTTCAGCGTTACCGTGCGGTTAA
 CACCGCGCTGCTTTTCGGTGGTCTTTACGGTCGGTACGAAGTAGCGATACGCTCGAA
 CTGCCAACGGCTTTCTGCCGGCAATCTTTGGCGCGCAGCTTCGGCGTAGGCGGATGTTCT
 CTTGAGCGATTCCGGATTGAGGAATCGGTGAACCGCAGGATATTCCGCGCTTCGCCGCG
 CACGGCTACGGGAGCTTCGACGCTAAAGGCGGCGGTGTCACAGCAGCACTTTGATTTCCGC
 GCGCTGTTCCGGCAACCCAAATGATACGCGCTTTTACCTTTACCGCTTCCTGGATTGTT
 GCCCAAGGCTGCTGTGGTCGATCGCATATTTGAGTTCAACACAACTTCGCTGCTCTGCTTT
 GACGACTTTCATCGCACTTGATGACATAGCCGTGGCGCAAGCTACTTCCGCCGCGGAAT
 CAGGCGTTTGAAGCCTTTGGCGGATTTCCGGCAAGCTGCGGCTTCAATATAGATGGT
 TTGGGAATAGGTACTTCCGCGTTCGCCATTTCCTCGTGGTTCGGATGGAACCGCGGACG
 GCGGCTTTGGGTTTCGCCGTTTCAAATTTGGTCAGGCTCACTTTGAGCGGGTCAACAC
 CGCTATCAGGCGTGGGCGGGAATTTTCACACTCTTCGCGAATCGCGCTTTCACACAGCT
 CATATCAGCACTTTTCAGATTGGAATACCGGCGCTTTCCGCAACGATGACGCGCTTC
 TTTGGGCTGTAGCGCGCTTCGGCGCATCCGGAAATGTCGGCATACGCGGATCGTCCA
 CGCGGAACGCTGTTTTTCACAAACCACTGATTCAATTTCCGTTTGGAGGTAATGGTGTA
 CAAAGAGCTCCAAACGGGAAACTGATTTGGCGGAGCGGTGGCATCGCGCGAGGAAT
 GTTTCGCAACACAGCTGTACACCGGACGGTGTGCTTGAATTCGAGCTACACAGGA
 ATGCGTGATCGCTTCGATGCCATCGGAGATCGAATCGTGATGCTATCATCGGTAGAT
 ACACCAATTTGCGCGGTGTGTGGTATAGGCGCGCGGATCGGTAGATGACGGGCTC
 CGCGATTGATGTGTCGCGCATGTGTGATTTTACGCGCGGTTTTCGTCGCGTC
 GGGGACTTCGCGCTTTTTCAGCGCTGTGAACAGCTCAGGTTTCTTCAGCGCTCGCGTC
 CGGTAAGGCGTGTTTTACCGCGCTTCGGTCAGCGTACCGGGTATTTCGCGATTTCCTTC
 GGGCGTCAAACTATCGACATACGCTTTTCCGCTTTTAATCAACCGACGCGTAGTCATA
 AAGCTGCTGGAATAGTTGGAAGCGAAACGGCTCGCCGCCCAATGGAACGACGCA
 CTCGACATCTCTTTGATGCGGTGACGATTTCGCTGTTTTCTTTTTCGGGTTTGGTATC
 GTCAAAACCGCAGGTGCAACAGCGCTGTAATATACGCCAAACGGAATTCAGGCGAGT
 GAGTTTGGCGGTGCTGAGATCGAGGTACCGTGGGTTTCGGCGGAAGAGGTTTGGAC
 ACGTGTATGTTTTCGAGAGCTCTTTCGAGATGTTGGTGGTGGTGAATGAGTGAATG
 CGCAAAATGCTTTTATCAGCATAGTTTCTTTGAACAGATGGCTTCAGACGGCATGG
 AATGATTCGCTATCGCTCTGAAGCGTTTGGGAATGTGTTTATTTATCCCGACTTCGCG
 GCTTTGACATAGCGTTTCAGACGGCTTCGGCAATCAAGACTTCCACCCCGCTCTTTCAG
 CATCTCTGCTACGCGGTATCGGCGACGCGTGGTGAATCTTTTCAACCGCGTAAAT
 GTCCGCGAGCTGACACGCGGTTGCTCGGGAATTTACTGTGGTTCGCGCGGAGAACCG
 GACGCGCGCATTTGCAATCATCGCTGATCACTGACTGACTTTTGTAGTCTGCTGCA
 AAGCGAACCGGTGCTGCTGATCACTGATCACTGATCACTGATCACTGATCACTGAT
 GTTCATAAATGACGCTTTCGACGCGCTTAACGCGCTTCGAAGGCGGACGACTCC
 GGAAGTATGATGACGCTATAATTCGTCGCGCGGCAACGAGCGGCGGTGATATT
 GTTGGTAATCACCTCAGGCTGCGCGCGCGCTGACAGCTCGACACCGCGCTCCAT
 CGTCTGCGGCTACTGACAAACAGCGACGACGCTCGGGAATGTTTCCGCAATCAGCG
 GGCATAGGCGCTTTTTCGCTTTGACACCGGGTTTGGCGTGGCGGCGAGCGCTTCGG
 CAAGTTTCGCGGAGGATGGCGCGGCTGATGGCGTTTCAAGCTTCGCGGACTCTCTGCA
 CTCGCGATGCTCGCGCTTCTGCTGCGGGAAGCTCAATTCGCGCGGACGCTCTC
 CACCGCATAAATGATGCGCGCGGCAAGGCTTAAATCTCTCTCGCTCTTTGATTTT
 CGGCTTCATCTTTCTGCTCTCTGATCGGGAATGCGGATTTTACCGGCTTCAACCCAA
 AGCGGAAACACCACTACAGAAACGGGCGGCGATTGACCAACACGCGGAAGCTGAC
 CGCTACCGGACGACTTCCAAACCGCGCGCACTGCAATCAGGCGAATGTAAATCTCAT
 ACTGCTGCAACGCCCAACCCCAACCGCATCTGGAACACGCTTCATCAGCAGCGGAT
 AAATGCGACTGCAACAGCTCTGCTGCAAACTGTTACGACGATGATGCTGCCCATAC
 CGCGCGTAAAGCTCGGTGATGACCAACCGGAGGGAATTCACAGCAAGCGGGAAG
 CATCGCAACCTTTCGCGACGACGCTCTGCTGATGCGGATGCAAGACGCGCG
 CGCAAGAGATGAACCATAAACGACGACGACCAACGGAATCCCTGCGGTTGCAACAA
 CTCGCGCAACGATACGCGCTGCTTTTGAAGCTGACGCGGATGAGGACACGACGACAT
 CAGCAATACATGCTCCGCGCTTTTCAAGCGGATCCAAATTCGCGCATAGTTTTCGCA
 TGCAAATCCGAGCAGCAGCATCCGAGCTGCCGACACTGCCGACACGCGGACCGAAAC
 GCGCTTCCTCTTCCCTTTTTCGCGCAACGGAAATTAATTTCCCAACACTGCAAGGAA
 CAGGTTGCGCCCGCGGTCAAAACCAACGCGCAGACGACGCTCAACGCCATCTGCTCAA
 CGCGAACCCAACTTCGCGACGACGACGACGCTCTGCTGATGCGGATGCAAGACGCG
 CACCAAGACCGATGACGCTATTCGCAAGCGGCGAGTAAAGCTTGGCGCATGCAATAA
 AAATCCGCGCAACATCGGTATCAATACGAAGGCAAGCTCAGGCTGCTCATCTACTG
 CTCCTCTTTATTCGCGCATGATATGCGGTTTAAATTTGCGCTCGAATTCGCGAA
 ACCGCAATCCATATTCAGACGGCATAGGTTGCGCATTAATAACCGCTGAAGGTTCA
 GCGCGCTTATTCGCTCCGCAATTCACATCTTCAAGCTTTTCCCAACGCTCCATACAGT
 TGCCAAAATGGCGCGCAGGATTTTGAACACGCGTTTGGCGTTCGCCGCGCAGCGAGGT
 CGAGGATTTGCGGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CACCGCGCGCAGCAGCACTCAGGGAAGACCGCGCGCAGCAGCAGTATTAATGCTGCA
 ACAGCACTCGTTCGCCACGAGGCGCGCAGTTCGACGCTGAAGGCAATGACAGCGCGT
 TCCAGCGCAGCGGCTCGCCCTTCGCGGAGGCTCTCTCTTCGCGCGTATCATCGCATAAA
 GCGGCTTGAAGCGCGTTTCCAAATCCGCGAAATCTCGGAGGATACTAAATCATCTGCT
 CCAATTCGATGCGCGCATTAACACATCTCTGATTCTTCAATTCGGAACGCTGGACGA
 ACGCGCCCTGTTGGTTGCAATGCAATTTGTCGTCGCGCAAAAGCGACGACGCGG
 CGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TCGCGCGCGCAGCAGCACTCAGGGAAGACCGCGCGCAGCAGCAGTATTAATGCTGCA
 GCTCGGAATCTGCGCGCTTTCAGGAATCAGGGAAGACGCTGCTGCGCGCATGGAATATG
 CGTCTGTTTCAAGTTCATGATGTTTTCCGATTTTACGCTTTCAAATTTTAAAGATG

Appendix A

-362-

TTTTAAGCGCGCTGTGTTTCAATCGTGTGAGAGGAATTAAGACATTGCACAAATTTATT
 TTATAGTGGATTACAAAAATCAGGACAGGCGACAGCGCAGACAGTACAAATAGTA
 CGGAACCGGATTCACCTTGGTGCTTCAGCACCTTAGAGAACTGTTCTTTTGAGCCAAAGCG
 AGGCAACGCCGCTACTGGTTTGTATATCCACTATATATCAATAAATTAATATATGGCTT
 AAAATACCGGGATTCTCGCCTCCGCGCCGCGCGGAGAGCGGCGATATCATTTTAAAA
 CGCGGCAATTTAAATTTTGACGCAAAATTTGTTGACAAATCGGAATCAAGTCTGCACAAATAC
 CCGGCAAGTCTCAAAATTAATTAAGCGTGATTAAGAGGACAGGACAGCAATATATCT
 GGGAGCTCGAGTGGCAATATACCTGCTTTTATCGGCTCCGGATTCGCGCGCACTT
 TTCCCTTCAGACGGTATCAGCGCTTTCCCAATAATGCCGCCGATGCCTATTTATCTGCC
 CGGCAATTTCAAACTGTGGGTAACTTTGCGCGTTTGGCCCAACATAATCGAAGCGGA
 CAGTATTTTGCGCGACACATCTGAACGGCGGCTCAATGGCGGATCTTTCAAAATCATGC
 CGGAATCTTGAATGGATGTGGATTTCGGTAAACACGCGCGGCGCATCTGCGCCGCT
 TTGCGCGTAACGCTGCACGGGAGTCACTGCTTCTGACGCTGTTTTTGCGCAATCATC
 ACCACATCGATCTCGAACAGCGCGCCACGCGCAACAGACGATTTCAAAAGGCGTGCGC
 CGCGCTTAGCTTACCTCTGTCGCGGAGGCTTCATACAGAGGCTGTGCGCGGCTTCT
 GTCTGCCGACAAAAACATCCGCTCTATCAATTTTGTATGTAACCTGCATGTGTCTATTC
 CTGAAATACGGCTTAAACCGCTTTGCATATGGCGTATTGTAAACAAATTCGAAGCGGCT
 TATCGAGAAATATGGACAAACGCGCAAAAAACACTTGAACACCGATTTACGGTTTGGCT
 GCGTGGCGCTTGATCTGCACCGATTGAGTTTACGGTATAGGTTTTCGCTGCTCGGTA
 TTAGCCTTGTGCGCGGAATATTGTTAGGAGCGGGTGAAGAATAATACATTACCGCATCG
 TCGCGCGCGCGGACCGGATATTGACGCACTTCGGTTTCAGCGGCTATGTGCTGATTTT
 CTGTACCGGCTTTATGTAACACGCGCGGAAATTAATTTTTCGCGCTTTCGCGCTGCT
 AGCCCGGGGGGAGTTTTCGCGCTATTGCCGCCAACTGCCAGCAAGCGTGAACAAATCC
 ATAGCCTTGGGCTTTGCTCGGTTTGTCTCTCGCGCGGTTTGCCTAAGTTACGCTGCGG
 TCGCGGAATTTGGCTTCGCGATACGTTTGCCCGCTGCTATGTCTCTATAGTAGGTAGGG
 TGCAGGATATTGCGGACCAACGCTACCGCGGACTCGAACGGATATTGTATAGCGGACT
 TTAATCGTGAACGATTTTGTAGCATGCCGCTGCGTTCAAATGTCTATGCTGCGCGGA
 ATCGCGTAGCTCGGGAATGTCAGACCGCGGCTGGGCAAGCGCTCGGCAATCCAGCG
 CACGCGAGGCGCAAGATACATGCGGCGGAATAATATTATTAAAGATCTTCACGCTT
 TGCTTCGCGCGGTTTACGCGCTCAGAAACGCGGCGCATCGCGGTTTTCGGAATTTCTG
 ACGCGCTTCCCTCAATAATCAGCGCGCGCGGCGAARAATCGGCAACGCGGTTTCGGATRA
 AGTTTATGCTGCAGCGCAAAACCGCTGCGGCAATATGCTCGCGCTATCGCGCTCGAGT
 ATCGGCAACACCGCTTGGCATACAACTGGGCGCAATCCAGTTGCGCGATAACGAATGG
 ATGTCGACGCGCGACGCGGACCGCGCTCCAAAGCGGCTTGTGCGATTAAGTGTGCG
 GTAAACGAGGAGAGATGAGCGGCTGAATGTTTATCAGCTCGCTTCGTAAGCGGCGAA
 AACTCGGCGTCAAGATATGCAAAACCTGCACAAACACCAAGTGGGCTGAATATGCT
 TCGATTCTCTCCATCAGCGCGTATCAAGGCAAGCGGATGAAGAATTTTATGATCT
 AGGCTATCGTCCGATGCCGCTTTCGCGGCCATTCGAAACGCGGACCGGTTTCGCTG
 TTGCTCAACACGCGGCAATCGGCAAGTGTGAATGCGCGATTGACGATTTGCTGCATA
 TTGCTGCGCGCTCAGAAATCAGATGACGATGTTTTCATAATGTGCGCTTTGAAAG
 GGAATGCGCTCGAACCGCTGTTTGTGTGTTTCAGACGGCATTTGCCGTAAAAATGCCGGA
 AAACCTGTTTGGGCGATGGATTGGACTTAATTTACTTTTGTATGTCGACTTGAGCGGG
 CTGCTTTGGCGGGCGGTTTTCGCGGTCGCGGATTTGACGAGTTTCAACATCAATACCAA
 AGTGGCTTCCGACCGATTTTTCGCGCGCACTGTTTTCGCGAGGACAGGTTCGAGG
 GATGTAGACGTGGCTTCGCGCGCTTTTCAGAGCTGTACGCGCTTGGCTCCACCGGG
 AATCACTTGGCTCAAAGGGAAGGTGACCGCGGCGCGCTTGGCTTGTGCTGCTGCAATAC
 CGTACCGTCAATCAGCGCGGCTTGTATTCACGGTAAAGATGTGCTTTTGTGCGGCTG
 TTTGCTTTCGCGCTGTTTGGTATTTGTATTCAGCGCGGAAGCATGGCTTTCACGCG
 GCTTTGGGCGGCAATTTCTTCAGAAAGGCTTGCGCTTTTCTTTATTTGGCCTTCGCGTC
 CGCTTGTGTTTCTCAGGCTTAGCTGTGTTGCTCTCAGGAATTTCAATGACATCTC
 CTGAGCTTGGCTGTGATTTGATTTGTTTCTGCGCATACGCTGCTGCTGCTGCTGCTG
 GTGAAGATTTCAAAGTGAATTTTCGCGGCTTGTCTCTCATTTGCTGCAAGCGGCTC
 GATGTCACAGGCCATCGATAGCTTGCCTGCTGATGCTGCTGCCGATCAAGAGGTGCT
 GCGCTGCGGGAAGAGCGCGCGGAGTTGGATGAGATGCGGGGCGGCTTCTTTT
 GCGCGAGGCGGAAGTGCCAAAGCGCGGGAAGGCTCAGTGGCTGATTTGAAATGGT
 GTTCATGATGGATCTTCGCTGCTGATAAGTCCGAAACAGGGAATATGCGCGAGTTTGA
 ATGTTTACACACAGAGATGACACATAAGCGTCAATCGTGTGTTGCGCGTGTTTTGAAG
 AGCTTGAACCTTCAAAATAGTTTGTATGACCGCTGCGGAGGACAGATTCAGATCT
 GCGGCTTCAACCGGATCAAGGAATTTTAAACAATAGATCAAGCTGTTTAAATTTTGT
 AAATCGGCGATTTCAGACGGCATTTTATGCTTGGCTTCCATGCCGTGATGTCGATGGC
 AAACCGCTTTCGCGGTAAGCGGTAAAGGCTTTCGCGCGCTGCGCGAGCTTTCAGCT
 GTTGGCGAGATTTCAAAACGCGCGCGGGAAGCGGAGCGGTGTTTCAAACACCCCTC
 GGACAGGTTCAAACGGTATGCTCTTCGGGATTTGGGCGAGATTGCGCGCGGAGGCAAG
 CAGGACGGATGTTTACAGGCGCATGGCTTCTTCGTTTCCCAATTTTCGTGCGGAATGAA
 AGCTTGAACCTTCAAAATAGTTTGTATGACCGCTGCGGAGGACAGATTCAGATCT
 GAGCGACACCGCTTTCGCGCTGCGGATTCAGGAGGCTTTCAGGCGCGGAGGAGTGA
 AATCGCACTTGGGCAACGTGCTGTAAGAGTGGCTTTCGCGCATATGTTGTAACATTT
 GGCAGGATAATGCGCTGTAAGAGGCTTCAGACGGCATTTGCGGAAATTAAGATTCGCG
 AGATAGTTTCAGCAGCAGGAAGGACGGGCGCGGCTGCGACCTTTTTCGCGACCGGATTC
 CACGCGTACCGCGGATGTAAGGTGTGCCATGATGATCTTCGGTAAAGTAGGATAGG
 AATGTTGCGCGGATGATGCTGCGCGCGCGGCGGCGGCGGATGTTTGGATGTTCGCGAAG
 TGTGTTGAGTGTGATTTTGTAGTGTTCGAAGAGCGGAGTTCGATGCTTGTGCTGCTC
 AGCTTGTAGAGAGGACGCGGAGTGTGATCAATCTGATATTTGCGCATACGCGG
 TGACATCTGTCGCGCAAGGCAACATACACGCGCGCTCAGGCTGCGGACGCTGATGACGG
 CTTTGGGTTTGAACCTGCTGCGCTAAGTAGGCGGCTCGACAAATCAGACGGCTTTCGG

Appendix A

-363-

[illegible]

Appendix A

-364-

TGTTCGCCGAGTTTGAATTCAGAAATCAAGTATTGCTGGCAGGAATGCAGCGCGCGCGCGG
 TATCAACCTGATTATCGCGCCGAGGCTCTGACCGCGAAGCGCGGAGGCCCTGAAACCTGCC
 TGCCCTCTACTGCTATCCGCTGCGCGAAGCGGCTGCGGAAGCAAGCGCGTTCACCTT
 GGGCGAAJAAATGGTGGCGCGCGCTCGGGTCTGCCGGAAGCGAAGCGGTGCGCGCGGG
 TACTTACTGCGAACCAGCGTATGACGACGGTCGGCTCGGAAGCACGACGCCGCGATGAC
 CCGCGAGCGATTGAAGACGATTCGGCTGTTTGGCGTCTCTCCGCGCATGATGGTGATCGAGCT
 TTTCTGGCAGACCGCGGCTATCGGAACCTGTGGATGAATAAACCCATTAAGAACTGCC
 CGCTTTATTTCTGACCGCGCGCGGTGTCACTGGCTCGCGGCGCGCGGTATCGACTG
 GTGGCTCAACCGCGCTGCTGCTGCGGCATACCGTGGCACCGCGCGGACAGCATACCGG
 TTTCCCATTCGGTATTCTCTCCCGCGCGGCTCGGGTGGTGGCTTTTGGCGCGCAAC
 GGGCGTAAATGCCGCTGATATCGCGGAGTCTGATTGGTAGCTTCAGCGCGAAGTCGA
 ACCGGGCGTAACTGCTCGCGATTGGTGAACGCCATCCGCTGTAGCAATCAACAAGG
 TTTGCTGACCGTTGCCAAGCGCGGTAAAGAAACATCTTCTCGCGCGCGCATCTCGTGGAAAT
 CAGAGCGCTGCCGATTTTGAAATGGGAACAGCGCTTGAATGAGCAGCGCATCCGCGGA
 AGCTCCCGCGCGCTGCTGATCCGTGAAGCTCAAGAGAGCGGATTATGAGTATGA
 ATCCAGCGCTGCTGTGATGAAGAAACATGATGCCAACGCGTATCAGAGCCCGGCACCTTT
 GGAACCGCGCATCAAGACTATGGAATAATGGCTGGCAATCCCGAGTTGCTCGAAGCGGA
 TAAAGATGCCGATACGCGCGCGTGAATGAAATCAACATGGACGACATCAAGAGCGCGAT
 TATCGCTCGCGGAACGACCGGAGCAGCTGTGCTTATGTCGAGACGCTCGCGGACCAAA
 AATCGACGAAGTATTACTCGGTGTGTGATAGCAACATCGGCACTTCGCGCGCGCGCTC
 CAACCTTTTGGAGGCGAGCAGACACCGCGCTCCGCTGGTGGATTGGCGCGCGACCAA
 AATGGACGCGAACAATTTCTGACGAGGACATACGCGTATCGGAGTCTGGAGTCTGGCGG
 GCGATTGGAATCGCGGGTTCCTCTTATGTATGGTGAATCAGGCGCAATGACGGAAGG
 TGCGACCGCTTATGCTCCACTCCACCGCAACTCCCGAAGCGTTTGGGTAAAAACACTTT
 TGTTTACCTCGGTTCGCGGAAATTTGGCAGCGATTGCTCCAAATCGGTAAAACTCCGAC
 CGTTGGAAGATATCAAGCAATATCGGCATCATCAAGCAACAGGCGGATAAATCTACCG
 CTATATGAACCTCAACAGAAATCGACAGCTACACGAAGTAGCGAGACCGGTGAACGTTTA
 ATCCCGCTCATCGTATGAATGAGAGAGATGACCGCAAGCGCTGAAACACCTCTAGA
 GGGCATTCGACATATCTGACACTCTTTCCGAGAGCGTGAATATAGCGGTGATCGCTCA
 GCGCCATGAAGGAACGACGCTGAACCTGAAGAAACCGGCTTTCTGAACTTTTGA
 CTTCAAGCGGAGAAATCACCGGCTACTCGACCTTCGCGCGAATTTGAAGCGCGCA
 AAGAGCAGGCGCGGATGATTCAGCGGATGAAGGGAAGAAACATCGCGCTGATTTTGA
 AACCTCTACTCGGACGCGCTCGCGGTTTGAAGTCGCGCGCGGATCAAGCGCGGAGT
 GACTTTATTAGACCGCTCGCGCAGCCAAATCGGCGATANGGAAGCATCAAGACACCGCG
 CCGCGTGTGGGACGATGATGACGATGCGCATCGANTATCGCGTTTGGTCAAGAGTGTG
 TGAAGATTGGGGAATAGCGGGGCTGTCGCGGTTCACGCGCTGACACAGGATGCTTCA
 GCGACAAATATGCTGACGACGCTGATGATGACGACGACGACGACGACGACGACGAC
 CCAACCGCGTTTCTGCTAGCTCGCGCAGCGCGCTCAACATGGCAATTCGCTGAT
 TTTAGGGGCAAAATTTGGGATGGAGCTGCGGTATCGGCGCAACGCAAGCGCTGTGGCGCTC
 TGAAGGCAATTTATGCGCGCGCACGCGCGCGCAAGAACCGCGCAAAATTTACCT
 GACCGAAACGCGCATGAAGCGCGGAAGATGTTGATTTATCATACCGATGTGTGGT
 CAGCATGGCGAGCGAAGAAATCTCGGAGGAACGATCGATTTCGGAAGATTACCG
 CGTACGCGCGCATGATGGCGGATCGGGCAATCGCGAAGTCAATTCATGCATGCTGCT
 CGCGCGCTTCCACACCGCGAAACCAATGCGCGGATGATGACGACCTTCGCGCT
 GAAGCGTGTGGAGATTACAGAAATAATGGAAGCGCGCGCAGCATCGTTTCATCA
 GCGCGAAACCGATGCAACAGATTAAAGCGGTAAATGCTCGCGCTCGGCGACTGACA
 GNACTGTGCGCTTTAAATTCATCCGCAACACAGATACGCTGACAGCATGTTTCAGAC
 GGTATCCATATATAGTGGAATTAATTTAAACAGTACGGGCTGCTCGCTTTCGCGTAC
 TATTTGTACTGTCTCGCGCTTCGCGCTGTGCTGATTTTGTATCACTATAAAAA
 AACTGCTACACAGCTGTAGCTAGTCCGCTTGAAGAAACATCAGTTTGTCTTGGTCA
 ACCAATTTGTGGAGTAAACGAGCATATGCGGATCGCTGTGGCGCGATTTTCAT
 ACTTGTGCTGCGGCTTTCAGCGCGCGGATGCTATGAGAGATGATGACATATGCTGACATCC
 TCTTGATTAACATTTTTCGCTATTTCGCGGTTTGAATGCGTTTTCAGGGCATTCGCGATG
 GCTCTTTTGTGGAAGCATGACCATTTCAGGCGCGGATGATGATTCGCGCTACTCGCA
 TTTTGGAAATGGATAGTTCATATTGCAATACCGCTTCGAAATCAGGTCAACGATC
 AGTTTCATTTCGTCAGACATTCGAGTAAGCATTCAGGCGCGTACCGGCTTCGCTC
 AGGTTTCAAAACCGCGCTTGTCACTCGACGACGCGCGCGCATATAGCGCTTGTGCG
 CCGAACGAGCTGTGCTGTTTCTTCGCGGAAGTGTTCATCATCAGACGCGCTTGTGCT
 CCGCGTTTGGCAAGTGAAGACGAGCGCGCGCGCTTGTATCTACCTGCTGCTGATGCTG
 TAAACGCAATAGAGAGGACGCGCGCGCGCTTGTATCTACCTGCTGCTGATGCTG
 CCGGACCTTTGGGGCAACCAATAATACGCTCAAGTCGCGACGCGGACGATTTGGT
 TAGTGCAGCTTGAAGCGCTGCAATGCCAGCGCTTCGCGCTTCTTCAATTTGGCTGTA
 ACTTCGCGGTATAGACGCGGACGATGTTTCTGTCAGGACGACGACGATACGACATCG
 GCTCTTTTGTGCGCTCAGCAACGCTTTGACGACATGACCGGCTGCTTCGCGCTTTTTC
 CANGAGAACCTTGGCGAGACCATCACGATTTACACCGGATCTTCAGGTTGGAG
 CATGGCGTATGACGACGATACGAGATGAGGAGGAGGATTTGCTGATGATGAG
 GACGATCGGACTTTATCGATAAAGACTTGCATTTGATTCCTTTAAGTAAGAGGTT
 GTCGAGCTTAAATTTGAGCGGCTTCGGAAGCGGTTAAACAGAGTGTGCGCTTAATC
 GGCACCTTCATTATCAATACGATTTCCACGCTTCGCTTTTGGCTCGACGAGCTGGAC
 GAAGGCTTGAATTCGCGCTGCGCTTATGCTGCTCATAGCTGCTTGAATTTCAAT
 TTTCAAGAAACAAACCGCTTCGCTTTCGCGATTCTCGTGGAGATGCTGATGCTGTT
 GCGCTCTTCGACGAGCTGGCTTGAACGATCTTAAAGCTTGTGAGGAGTGTTCGCTG
 TATTCGCGTTTTCGACGAGCATCAACATCGCGCGCTGCAAGGTTACGCGCTTAAT
 CGCTTGGTTTTACAGCAGCATCAACATCGCGCGCTGCAAGGTTACGCGCTTAAT
 TTTCAAAATAGCTCACCGGACGAGTGGCGCGCGCTGTCGCTAGCGTTTCCAAAT

Appendix A

-365-

TTGGGCGCGTTCGGACGCTTCCAAAAAGGAATCCAGCTTGTCTGTGCGACGGTAATTTC
 AATCGTATAGCTCGGGTGGTTACGCTGATGATGCTGCCCGGTAGATTTCGGTCAAGCG
 TAAAAATTGCTCGGGTCTTTGCCGGCGCAGCGACTTTACCAACATCAGTTTCGGCTT
 GACAAACGGCTTTTATTCAAATCGACCATTTAATCACTTCAATCAATTTATTGAGTTG
 CTTGGTAATTGTTCGATGACCTGCTCTGTCGCCCTGGTAAACGATGCTCATCCGTGACAG
 GGTTTGTCTTCGGTCGGCGCAACGCCAAGAATCGATATTGTATTCGCTGCGTGCAGCA
 CAAACGACCCGGGCTCATCGACCACTGTCGTTTCATTCAGCAACAGTAGATGATG
 TCGATTGTCTCTTTCGCTCTGCTGGTGGAGCATTCGGGGGGAATGCCATT
 CGTCCAAACCTTTGGCTGTGGCGACCATGGGCATCACATTCCTTTCTGCTCGCTCAGGA
 AGTCGATAAACACCGACTGCTCTTTTGGTTCAATGCTTCCAAACACCGACTTCCACAT
 CAGACTTCTGTGTCAGCGGATACCGATATGGCCGATGCCCTGGCAAGTTTGACGAAAT
 CGGGCAAGAATTCGAAATAGCTTTCGACTCTGCTCCGCGGTAATATATTTCTCGCACT
 GGGCTACCATCCAGATACCGCTTGTTCAGCGCTAATGACGTTAACCGGAATCCGATATT
 GGAAACGGTGGCAGCTCTTGGATGTCTATCTCGATCGACGGTGGCGGGTACATACGA
 ATAGCTTGATTCGGGGCGCAGCTTTTCGCCAATCGCATAGGGCGACCCGCCCA
 TCGTACCCAAACCGCCGAATTCAGCATATGGCGGAGCTTTCGAAAGGATATATTTCG
 CGCAAAACATTTGATGCTGCCCTACATCCGATGTGATGATTGCCGAATTCGGGTAACT
 CGGCAAGCTTCTGAATCACAATTTCTGGCTTGATTAATTTCGCTGCCGTTGTCAACACCA
 AGCAATCTCGGGAACGCCATTCTCTATGCTTTCCACATTTCGCCAAGCATCTTCAG
 ACGCGACCGACTCTTGTTTTCGACAGCGCAACCACTTCGGCAAAAAGCTTTTTCAGCT
 CGCGCAATCGGAATGTCCACTTCACGGCTTTGGGAGTGTGGAGAGATCGACATCGA
 TATGGATAACCTTCTTCGGCTTTCGAAATTTGGACGGTATGGAAACACACGCTCGCT
 CAAGACCGCGACTACGCGCAGAACGATCCGCTCTGCTATCGGAAGATTTGCTGTG
 AAGTACCGCTGCATCCGACATACCGGAATTTGGCGTGTGCGGAAGATAGCCGCCA
 AGCCCATCAGGTCACCGCTGCACGGAGCACCCGCTCATTCGGACAAATCGGGTCAGCTCT
 CAGAGACATATCCCAACACCGCGCGCCCAAAATAGACGACCGGAGCTTTGGCAGATG
 CCAACATCTGCACGCCCTTTTAATCTGACCGATATGCTCTTGAACAAACGGTTGATAGC
 AAGGATTAATAATCTCTTCTGAGGATAGCTGAATTTGCCATCGCTCGGTAACTCTT
 TCGGACATCAACACACCGGGCCCGCTCGCGCGCTTCGGCAATTTGGACGCTTT
 TAATGCTTTCGGCTCTGCTGATGCTTTGATGCTTTGATGCTTTGACCGCGAC
 GGGTAATACCCACTATCACTCTTTGGACACGATCCGTAACCAATCAGGGAATTCCTCA
 CTTGCCCGCTGATGACCACTATCGGAATCGAATCGATAGGCGAGTAGCAATCCGGTCA
 GTGACTTGTAAACCGCGGGCGGATGTAACCAATGCCAGCCCACTTACCGCTGACGC
 GCGCATACGCTATTCGCGGCTGTACTGCGGCTGCTCATGGCGGTAAAGATTGTTTGA
 AITTTAGTGTGAAATAAGGCATGTGATTTGATAACCGCACCGCGGGGATAACCGA
 AAGCTTACTCGACACTTTCGGCTTTGAGACTCTGACATGATGATTTCGGCGCTGATTAAT
 GCATAACGACTCTGACGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CCTGTAATGCAATCCCAACGACGATTTAGGGTACCGGCTTTGGGGAACACCGCA
 CAGCGGATTTATCAATCAATTTGAAAGGAACACGAGTTTGTGAAAJAGATGAAACG
 ATAACGCAAAACGACAGTTCATATCAAGAAAAATCTTTCATCTTTTAATATTTTGAAG
 CAGAGAAATATTGATGATTTTAAAGAAATAAAATCAGGAGTACCTTTTTTGAAGATG
 GAAATTTGTGACAGTTTGTGTAGGAGGGCAGATGTGAAAAACCTTCTTCGATATCAAG
 AATTGTAAJAATTACAGGGTTTCTATCCCAATTAAGAGCTCGGATATTGATTGAATCTGAT
 TTTATTTTGTGATATACAAJAATTTCACCACTATCTTCGAAATGGCTATTCGAC
 CGGCTGTTTTCGAGCGATTGACAGACCAAGGGGTAACAGGACTTAATATTGATG
 TTGTATAGTGGATTAACAAAAATCAGGCAAGCGCAGCAAGCTTCGACAGCATCAAAATAG
 TACGGACCGATTCACTTGGTGTCTGACACCTTAGAGAAATGTTCTTTTGAAGTAAAG
 CAGGGCAACGCCCTACTGGTTTAAATTAATCACTATATTAGTTTATCTATTTCATT
 AAACAGCAATAGACAAAAAAATAACCGCTCTAAACCGGTTGTGTGCCAGGGTCCGA
 CTCGAACCGCACACCTTTGCGCGCGGGGATTTTGACTCCCTCGGCTCTACCAATTTCCGC
 ACTTGGGCTGGTAGAAGTGTGCTATATAATGGCTTTTGAATTTGTAAACCTTTTTT
 TTGAAATATTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT
 TAATCTTACTGTTCTTCGCTCCAAAGACTCTGATGATTTGCGCAATTCCTCGCGTGA
 GACAAGCTAAAAAATATACATTAATTAATCTGCCAAACGGCTTAAGATGGAATATTCAA
 TTCGCTACGAATCAGGTTTTCGATTATTTATCTTCGGAGATTTGATGTTTTCGTCACCG
 GTTCTTTTTTCCGCGCGTTTTCGTAATTCGCGCGCTTTCGCGCTGCAAACTCAAGACA
 ACAGTGGCGGCGAAGTCTCTTCAAGTGATTCGCGTCCGCTCGGGAATTCGGGCA
 AGCGGCAACCGCGGGTACGATGATGATAGGAGACATTCGCGGCAATTCACGCTGA
 CGCGCGGCAACCGGCTGACGATGATGATGATGATGATGATGATGATGATGATGATGATG
 CTTTCGCTTACAGCATCTTCCGATGCTTCGCGGACACGACTTTTCAGCTACAGCAAC
 CGTTGAAGCAGTTTGGCGGGCAGGCTAGGACGTGAAGTGGTGTCTGTCAGCATCGATC
 CGGAACCGGACACGCTGGAATCATCGGCAAGTATGCCAAACGTTCAATCGGACTTTA
 TCGGCTCGAGGCGACGGCGGCGCAAAACCTCGCGGCTCATCAAGCAGCAATACCGCGTGG
 TTTCTGCCAAAGCTCAATCAAAAGAGCAGCAGCAAAACATTTTGGTTCGACCTCTTTCGG
 GTGCTTATCTCATTCACAAAAACGGGAGGTGCGATTTCCTCGCTTACGAGAGGAGAC
 TCGGCAATGATTTCGCTTACGAGACCGCTCTGATGAACCGCTATCGGCTCGAGATG
 CTTCCGCGGCTATTACAGCGCAATTTATGTTTCAACGCAAAAGCAATCCACACCATGC
 AGGATAATGCTTTGACCATCCCTTATCCAAAGGGCGGATTTTGGAGAGAGCTTCGCG
 TGCTTGGCGCTGGCGGCTATGTCGACTGAAGAGGCTGAAAAATCGGCAAGCTGATTA
 TCGGGACGAACATGAAAACATCCGCTTGTCTATCTCGCGCAACCGATGTCGACAT
 ATGCTCGCTACGCGCGGCGGACTTGGCAATTCGGGCAAGAGCACTGCTGATCGAACACG
 CGCGCAACGGGCTTTCAGCGCTTTGATTTGGAAGATTCGCAAGTCGCGCATGATGGT
 TGTGCTGAAGAGGCTTACGAGACCGCTCTGATGAACCGCTATCGGCTCGAGATG
 CCAACAAATCTCTGAATCGCGGCTCTATTTCGCGGCAAGGCTTCGATATGCA
 TTTCAACTGTACGGCTCGATGGAACTTCGCGCGCTGCTCGCTTGAAGGATGCGATTG

Appendix A

-366-

TGGACTTGGTTTTCGACGGGCAACACGTTGAAGGCAACGGCTTGGAAAGCAGTTCGAACACA
TCGTCGACATTTTCCAGCGCCCTGGTGGTCAACAGGCTGCTTTGAAAGCAAAATACGGCG
TGCTGGAGCGGATATTACGGCGTTCGGCGCGCGAGTGAAGCGGAATAGCATCCATT
GAATAAAGATCGGTTTTCAGACGCCCTATCCGCTTCGGCGGACAGGTGCTGTGAAATA
TCACCGCGCATAACTGTATAGGAGAAAGTAAATGGTTGCAAAATAAAAAATTTCTCA
GATTCACACCTTTTCGCTTTTGAATAAGGCGAGCGTGGTTTATGTCTATTGTCTGAGC
AGCTGAABAAAGCAAGAACTCTCTATACGGCAAGTGGTGAATGCTATCTCGAG
CATGAATGGGTCGATGCTGCTTCACACAGTCTCAAGTCTCGCGGAGATTTAGTCGAGAA
CTCAAGCGCATCTCAAATGCAGAAATCTCGGTCGTATATCATCAGCTATCATCTGACT
GAAGTCGAAGCACTCGCCGCGCAATCTGCTTAAITCATTTTGTAAATCTGCTTGGGT
AAAAAATCAAAAATAAAATTCGCGGGCATGGTCGGGTGGTATTAGCGTAGAAGAACTA
GATCGCGCGTTTGGATTCTCTCTCTCCACTTAACGAGATTAACCCGACGGGTGATT
CTCGCCATCAAAATGGCAATGCTTGGATTAGTACTGACGAAGAATTAGACTACCTT
TTCGACCAACCAAGAGATGCGAAGCTCAAACTCGGTACTTGGCCAACTGGGTATCGGT
AAAGATGTTGCTCAAAAGTGAATATCGTTATCGCGCTTCACACCGCTTCGCAAAAGCT
GTTGTCAGTGCATACGAAGTGGAGCGTTTGAACAAATGTTGAGGAACCAAAAACGGT
AGAAAACAATCCCGTTACCGTTTCGCGCACTACTCTGTAGCGAAGAGGTATTAGCAAA
CTCGGTCTGCACAAAAATGCTGCCCGAATTGAAGTTTGGTAGCGGGGAGAAAAGCG
TATATCAGACCCAAAACAGAGACAGAACTGAACAGAGATATTCAAGACGCCCAAT
CCAAAAATAAAAAGGAAAAAACAATGTAAGAACTCAACACCAATCGCCCGATT
TCAAGCGCGCATCAAGCGCTCTGGCTTTTGAACCGCGCAAAACCCGAAACCGAAGC
GCATCTCGCGACATTTGCCCGCACTGCAAAAGCGGGCGCTGCTGTTGATGATG
ACACCAACAATTTGATCAGACAAACGCTAAAGCATCGATGTTTAAATCAACGCAAG
CGGATTGAACGCGCGGTTCGAGCGCATTCGGAACGAGCTCAAGGCGATTGACAGCG
CCGCGCGCGCTGTGAAAGCTACCAACAGGCCAAAAATGGAATCTGTGAGCTACAGCG
ATGAAGACGGGACGGTGTGGGACAAATACACAGCGTTGACCGCTCGCATTTACG
TCCCGCGCGCAAGCGGCGTATCCGAGTTCCGTCATCATGAACGCCATGCCCGCCACG
TCGCGGTTGTAAGAAATCATCATGTCGTTCGCGCACTCAAAAGCGGACGCAACGACA
TGCTTTGCGCGGCTGCTGCTGCTGCGCACTTCAACCTCGCGCGCGCTGCTGCGCG
AGCGGTTGCGGCTCTGCTCTGCGCAACGGAACCACTCCCAAGCTGATAAATCAGCG
TTCGCGGCAACGCTTCTGCGCGCGGCAACCGCGGCTGTTGGCGCTGTTGCGCATCG
ACATGTTGGCGGCGCGCTGTGAATCTGCTGCTCATGCGCGAGCGACGACCTGCCGATT
GGGTGGCGATGATTGTTGTCAGCGAGCGGCAACGACGAAATGCCAAGCCATCTCA
TCTGCGCATCGCAGCGTATCTGCAGAGTAGAAGCGCTATGGACGCGCTGATCGAA
CATGTCGCGCGCGGACATCATGAAGCTTCGCTTCGCAACAGGGGCGGATGATGACTG
CAAGAGCTTGGACGATCTGCGGAGTTCGCGCACTATTTGTCGCGCACTTGGAC
TGTCTCGAAACCGCGAGATGGCGAAAAAATCCGCGCGCGCTGCGATTTC
TGGGAGCTACACCGCGCAAGCGCTGGCGACTACTCGCGCGCTCCAAACATGTGTG
CCACGCGCGCAACCGCGCTTTCTTCGCTTTGGGACATATGATTCCAAAAACGCT
CAGCGCTGATTACGTTTTCGGAACAGGGCGCGCAAAATTAGCGCAACCGCAGCGTGC
TGGCACACGCGGAAAGCTGACCGCGCACGCGCGCGGAGAGTTCCGTATGAATTAAT
GCGCAACCGCGCTGAGGCGATATCCAACTTAAGGAACACAGTGAATCCGTGCGCT
CTTTCATCCGCGACGATACAAAGTATGTGCGGATATCAGATTGCCGAGTTCGCGCG
GCTTTCGCAACGCTGATTGATGGAATGCGCTCCGCTTTTGGCGGATGAAAGC
TGTTCGAGAAATCGAGGCAAGCTTTCGCGCGCGCGCATCATCTTACCCAACTCCCT
CCGCGAGCGGTTTACGGAAGCATTACGTTGCGCGTTCGACATCCGACTGCGCGACA
TCGCGTGGGCAACGCTTCGACGCACTGATACAGTTTCATCAGATGCTGACCGCAAC
CGGCGCGCGCAATGTTGGCAGCGCAACGATTTGCTCATGACCGCGCAACGCGCGCG
GTGACGCGATGATGATTATGGGCGTTCGACTGAACGAGATTTCACCTCAACCTGCGCG
CGCTCTCGAGCGGTCAGGAACACGCGCTTCGCGCTGACCTTATCGCTACCCCAACA
ACCCGCGCGCTGCTGCTGCTGCGCGCTGCGCGCTGCGCGCTGCGCGCTGCGCGCT
GCATCTGCTGCTGCTGATGAAGCTCAAGCGCACTTCAACGCGCAACGCTTTCGCGG
CAGGCAAGATTCCCAACTGATGCTTACGCAACCTCAGCAAAATCGTTTTCGCGGAC
TGGCTATCGGTTTTCGCGCGCGCTGCCCGAAGTCTCGCGCACTGCAAAATCTGCG
CGCCCTACAATATGAACCAATGAGCTGACCACTGCGCAACTCGCCCTGCGGCACTAG
GCATTATCTGCGCAACATCGACGCTGAAACAGCAAGCGCAACGATGTTGCGCGAAT
TGGCGAAATATGCGGCTGGAACACCTTTCAAGTCAGGCAAACTTATTATCAATACGCG
TACCGGATGCGGATTTGTTGTTGACACGCTCAACCAACAGCCGCTTTGTTGAAAAA
TCGATGGCGCGCTGTTGCGGAGTCTGCGGAGCTTACCCTGCAACCGCAATCTCGGAAC
CAAAACGATCGGCTTCTCAACATCATTCGCCAATTTACTGCAACACGAGGATTCTCTAT
GAATTTGATPAAACACACGCGCACTGCAACCTTTCTGACCTGCGCGAAGAGCAGG
TTCGCTGTCCAAAGCTGCCAACTCTGCGGATACGTTACCCCGCTGCGAGTCTACAAAT
CAACACAGCGCTTGAAGAGCGGCAAGAACCGGATGACGCGGATCCGCTCCAGCT
GATGCAAACTCGAAACACACGCGCAACCTCAAGGCTGCTGCGAGAAAAACCGG
CGACGCACTGTGCGGAACCGCGCGCGGCAAGACCGGAGCTGCGGCAACCAATGCT
CGAACCTGCTCTGCTGCGGCTGCGGAGCTTACCCTGCAACCGCAATCTCGGAAC
CAAACTCACTCTCCATCAACTCAAGGCGAGCGGCAAGAGCGCTGATACCGGCT
AGCTTCTCTGCAACATGATGATCAATCGCGCGGACGCGATGATGATGATGATGAT
CAGCTGCAAAAGCGCTGACATGACGACCAACACCGCGGAAGCATTCGGATCAC
ACTCGGCAACGAACTCGGCGGCACTGCGGCAAAAAAGCATCCGCGTTACGGA
TCTTACGTCGCGCTGACGAGGCTCTGCGCGCTGCTCATGACCTTTCGCGCGCG
CGGCTGCTGATACACATGCTTACCGCGCACTCGGCACTGACGCGCTTTCGATGCTGATT
GTTGAAAGATGTCGCAAGCTGATGATGATGATGATGATGATGATGATGATGATGAT
CTCAGCGCAAAACCGCAACCATCGCGGAAACGCTGATTCAAAGCTTTCGCGCGCG
CTGCGTATGAGGAGTGAACACCGCGGCTGCGGACGACGCAACCGCTTTCGCAAGG

Appendix A

-367-

CACGCTGACCGCGATAAAACCATACCGTCTGAAACACCGCGAGGCTTTTCAGACGGTAT
 CGGAACAGATAAGATTTCACACTACACTACAAACAGAAAGGATGAACACTCATGTCCGCGAA
 ACGAATACGCAAAATTCGGCTGGATAGGCTTAGGGCAAAATGGGCTGCGTATGGTAACGC
 GGCTCTTGGACGGCGCATCGAAATCGGGCTATACACCGCTCGCCGCGACAAACTCGCC
 CCATCTCCGCGAAAGGCGCAAAAGTTTACGGCAACACCGCGAATCGTCGCGACTATC
 CGGTCAATTTTCGTGATGGTTTCGCACTATCGCCGCGGTGTGGACATCTGAACGGAGTCC
 GCGACGGATTGGCCGCGCAAAATTCGTGACAGACGACGACATCTCCCGACGCGAAAC
 TCGCGCTCAAGACGCTTGTACGACGCGCGAGCGGACGCTTTGCGAGACGACCGCTTCG
 GATCGGTGCGGCGCCGACCAACGCGACGCTGCTGATTTCTGTCCGCGCGACGGAACGCG
 TTTTAAACCCCGCTGCAAAAAATATTTCCCTCTGTCGGCAAAAAAACCTTCCATTTCCGGG
 ATGTCGGCAAGGTTTCGGGCGGAAACTCGTCTTGAACCTCGCTCTTGGGCATTTTCGGGCG
 AAGCGTACGCGAAGCGATGCTGATGGCGGGGAGTTCCGCGATCGATTACGACACCATCG
 TCGAAGCCATCGCGCGCTCGGCAATGGACTCGGCCATGTTCGCAACCAAAAAATCCCTGT
 GGGCAACCTCAGGAATTTCCCGCCGCGCTTCGCGCTCAACACGCGCTTCGAAGACCTCAACC
 TCGCGTCAAGACGCTTGTACGACGCGCGACCGCTCCCGCGCTCGAAGACCGTGTG
 CCAGCTACCGCAAGCAGTGCGAAGCGCGCTACGCGGACGAGGACGTTCCGCGCTTACG
 TGAACCTGGCGAAGCACTGATTGCCCTTTCCAAACCAATGCCGTGTGAACATATTTCAG
 ACGGCATTTTATCACCCACGCTTAAATCAGTCCGCTATGACTATATAGTGGATTAC
 ACAAAAATCAGGACAGGCGAGCGAAGCGCGACAGCTACAAATAGTACGGAACCGATTCA
 CTGGTGCTTCAGCAGCTTACGAGTCTGTTCTCTTTGAGCTAAGCGGAGGCAACGCGGTA
 CTGGTTTGTGTATCTCAGTATATATCCGCAAAATAGTCAATATCAGACCAATATG
 AACCACTGACCACTTGGCACCTGATCAACCTGATTGCAATCTTCGCAAAATG
 ATCGGCGACGAGGATCTGAATACAACTCTTTCGCGTACTTTATACCTTGCACCGGAA
 GCGACGCGCACGCAAAAGCATATCGGCGAAATGAGCGCTCGCCGCAAGACGACGCTTCA
 GCGCTATCGCAAAACCTTTCGCGGACAGGGTGTGATTGAATGGCAGGAGGCGAACGAGGAC
 CGCGCGCAACCGGTTGCTGTGTTGCCGGAACGCGCAAGCGCTATCGCGACCTTTAACA
 GAAGCGCGCGAGGATTCAGCGCAAAAGTATTGCCACATTCGCGCGCAAGCGCAACAT
 GCGCTTTTGGCGATTGTGATGCACTGCGTGAAGTATGAAAAACCAATCTCGGAAAAAT
 AAAAAATAGGGGCAAAATATGTGGAAAAATGTTGCAAGCAATGCGCAACCGACGCA
 CGGATGATTGGCACTTTCGCAAGGATTTGCGCGTGAAGACCTTTTATGCTGGTGTATCG
 GGTGTTCGCGCGCGCGGATCAATGCGCTGATTGCGGGGAGGTGTGGACGCGTGTCT
 GTACGCTTTGGTGTGCTTTGATGTGCTGCTGCGTGGTGGCGCGATTCGCGATTAC
 GCGCACGTTTACGCGGATTTATACGAAATCGCGCTGCGGCTGCTGTGGAACAGCGGCA
 GCGCAAGTCCCGCATTCGCGGTGAATCGCGGGGTGCCCTCTGCTGCGTGAGTTGTGAC
 CTTTITGAAGAAGACCTGCGGATTTGCGCGGACATCGTGATCAATTTCCGCGCGTG
 CATCATCTGCTGGTGGTGGAAATTTGGTGGCGGTGTGGCGGGGCGGATCTGCGTGT
 GTTTTATGCTGCGCAAGGATTTTTCGCGCGGATTTTTCGCGCGGATTTTTCGCGCGAT
 CAACACGCTTGAAGACGCAACCACTTATCGAAGAGCGACCGCGGACGCTGTACGCG
 CCATTACGGACTGCTTTCGCGCGCTGCGGTGTGCTGATTTCGAACCGCGAAGCGCTTGGGTA
 TCTCTGCTGCGCACGCGGATGGGATTTTGTTCGCGTTGCTTTGTGATGATGACGCT
 CAAGGCTACAGCAGCGCGGGGCGATGCTATTTCGCTCGGCACTTATCTGTGGATGTTTTCG
 CATGATTTGACGACGCTGCGCGGATTTGCGAACAATTTCCAAATTTGAAGACATCGG
 ACACGGAATAGGTGTCGGAACGGAACATCAAGGCGGAACCTGAAAAATGCGCTCTGA
 AGCGCTTCAAGCGATTTCCGCTGCGGCAATCATACATCATTCGCGCGCGGCT
 GCAAGTTTGGCAAAACACTTTTCAACAGAGCTTCGCGCTGCAACCAATGCGCTGAT
 CAGGCTTTGCTTCTCTGATATTCACTTCGATTAACCTGTTGTTTCAAGCGCTTTCAA
 CAACAAATCATCACTGGTGGAAATCTGCTCAATCAAGTTCAACGCAACGCGCTGCGACG
 GAACCAATGCTCGCCGCTTGCACATCTCTCATATCAATTAAGGCGGCTTCTGCTGAC
 AAACTGTTGAACAACATGATGGGTTTCTCCAGTTCTGTCGGAATTTCTGTTTTCGCGCT
 TTCGTTATTTTCACCAATAAAGTAAACGCTGGCGCTTAAATTCGCGCGCGCTCATCAAT
 CATCATCATATGTTTTCGCAAGCGGGGATTCGCGGATTCGCGGATTTTCGCTTTCGCGCT
 TAAAGAAATGCGCAAGCAAGTATGCGCTTTTTCGCTGATGTTTTCGCTTTCGCGCT
 TACGACACTGCGCTTTCGCACTGTTCTTATCTGTGATGATGCAACCAATCAGCGC
 AATTGCGCGAACGCTAAGCAGTTGAGCAGTTGAGCAGGAATAACGTAATTACGTAATAATT
 TTTCCACATTTGATGGATTCTCTCTTGTGAGCAGTGAACATGCAATATGTCATACAC
 CGTCCGCGACATAAAAAAATAACCGCTTGGAGCGGCAATGTCAATTTTCAGCTTGTGCGCC
 GCGCGCGGAATCGAACCGGCGCGGATGTTTATGCTCGACGGAATTTTAACTCGGTGTGT
 GACTTTTTCACCACTCGGCGATTTGGAAGAGTGGAGGCGGGGCGGAGATTTTAAAC
 GCGCTGTATGAAGACGCTATGCTATGATTAACAGCTGACGCGCGGACATGATGAT
 ATATGGAAGCGAGATTCGGAATCGAAGCGCGGTAGACGATTTGCAATCCGCTGCATAA
 CCACCTTTGCTATCTGCGCTTAAACTGGCTTATCTAAAAAATTTGAGCGGGAAACGAGT
 CTCGAATCGCGACCTCAACTTTGGCAGGTTGCGCTCTACCACTGAGCTATTCCGCGG
 CGTTCAACACATATCGGTTTGGAGCGGAAAGAGCTGCTGAACCTGCGACCTCAACTT
 GGCAGAGGTTGCGCTTCCAACTGAGCTATTCCGCGCTGTGATGTTTGAATAAAACTT
 GCGCGGAAACGAGTCTACCACTGCGGACCTCAACTTTGGAGAGGTGCGCTCTAACCA
 CTGAGATTTCCGCAAGATCTGCGAAGATGAATTTTGGAGCGGAAACGCTGCT
 GACTCGGACCTCAACTTTGCGAAGTTCGCGCTTCAACACTGAGCTATTTCGCGCGGAC
 TTTCACTTCTCGGATCGAAGAGACCAATATTATGATTTCTGTTTTCGCGCTAAGCT

Appendix A

-368-

ATTTTATGTTT TTTTCAGGCGATT TTTTCCACGCCATTTCAGATAATCAGCATCGA
CCAGACTCTCAGCAAAAGATGCGATAAACATCAATAGATTGCGCATGAATGCGAGGTTAAA
TCCATAAAAATCGGAAATTCAGCAGCAGCAGGAAGATTGCCAGCATTTGCGCGGGCT
TTTAAACTTACCAGCGGTGGCAGCGCAACGCTGTTCTTTTGCCCAATTGCGGCATCCA
TTCGCGCAATGCGAAATGGTAATTTCCCTGCGCATGATGATCATGGCAACAAAACATA
GGTCGCGTCAAGTTTGACAGTAAGAGCAAGAGACGGCGACCATCAGCTTTGTGCGCAAC
GGCATGAGGAAGGGGATCCGAATCCGAGATCTGTTCCAGACCTTGCCCAAAATCCGTA
AAGCAGTCGGTGGCAGCGCGCAAGCGCAAAAATCAGCGCGCGGTGAGATTAATCTGCTT
CTCCGCGAACCAAGAAAGGCAAGTAAAAAGGGCTCTCAGGACAGGAATGAGCAAGAC
CCTCAACCATGTGAGGAAGATGGGAGATTCCAAGGCATCGGTTTCTCTGTGCAAGCTG
TAAAGTTGTGATATAACGGTTATCTCTCATACCCAAACGTAATAATGCTGCATGGGCA
TTCCCGCCGCCGCCAATCTGTTTTCACATTCTTTTCAACCGCAGAAATAGCGCGCA
TAAAGACAAAATACCCAGTTTCAGGCTGAAAACGGCAGGTGTGCGAACATCTGCAGAAC
GGGTCTTTCGCGTGGCGGCAAAATCTTATTTGTTATAGACACTGGCACTGTGCGGTATT
CCACAGAACGCGTTTAAAAAGCTTGGCGAGGGTTTGGCTTAAAGAGGATCTAACT
GCTCCGCTGTAGGTTTGTGCCGATATTGCCCGCTGTGCAAAACGTCTGAACCATAGC
AGGAAGCGGTAATGCTGCGCGCTGTCATCAGTTTGTATTGCCCTGCGTGGGTTGA
GGCGGTAACGCTCAATTCCGCAATTTCGAATGTTTTCTTGTGCGTAATGCCGTCA
GGTAAGTGCAATAAAACGGCGCAACAGCAGACAGCTTATGGCGCAAAACCATACCC
AGCGATAATATAGTGGATTAAATTTAAACGATACAGCGTTCGCTGCGCTTAGCTCAAG
AGAACGATTCCTAGAGTGTGAGGACCCAGTGAATCGTTCGGTACTATTGTACTGT
CTGGCGTTGTCGCTGTGCTGATTAAATTTAACTACCTATATTGACGCTTACCC
TTGTTTCTCAAAATGCCGTCTGAATTAAGCGCTTAATATATTGTTTACATGATTGGAG
CATACAGACAAAATGCCGCTGCAATATTTTCAGACGGCATTTCTTATCCGAACGGAT
TATTTTTCGGTTTCAACCGCTTCCAATGCACGAGGGCATTAAGTGAAGCGCAACCGCA
TTCAGGCGCAATGGCGGTTGCCAATGCACCTGGATTTCGCTGCGTGCACCGGCTTTG
GTGCGCGCGCGCGCTGAACACTTGCACACGCTCTCACACGCTGATGTAATGCAACGGCG
ATGGCAATCAGTTCGCGGTTTTCAGATCAAGTGGCTGCGACCTGCGGCTGCGTTGTCAT
CGCGCTGAGCGGCTGAGAGGAGCGCTTACAGCTGATGATGATGATGATGATGATGAT
ACCAATGCGGATGTTCTTCCCAATCTTAAACATTTCTTTCTCTCTCTGCGGTTA
ACCTGATACCGGCTTTCGCTATCTGTTTCGATGCTGCTATTATGCAATATTCAATG
TGTTTCTGTTTATCATCTCATTTATGTTTCAAAAAGATTATGGACATTTGACAA
ACTGTCGATTTCGCCCAATTGACGGCGAGTGTGATGTGCACTGCTTTTGGCGGCA
ATGTTGCGTACGGCATGAACCTTGCACGCGAAGGATGATGATGATGATGATGATGATG
CAGCGGCTATCTCTGATCTGACGCGGCAAACTTCCCGCGCTCGGCTGATGACGGGAT
TGATATTTTCGCGCGGGGAGGGCATGTTGTCGCGCTGAGGAGGATGATGATGATGAT
TTTACAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
GATATGAGCGCTGTTTTCGCGCGCTTTCGCGCTACAGCACCGCGGATTTGATGAGG
GCTGCTGAAACGCTTTTCTGACATTTGCCATCCAGGTTTACAGTATGTGTTTCAAT
GCTGCAACTGGAAAGCAAAAACCTTTGACGGGACGCTTTCATGCTCAACGATTGCT
GTCCGCTGCTGTGTTGCTTATCTCTGCGCGCTATCTGCAACAGATAGGATGTGGAAT
CTCGGGCTATTAAGAGTTGGCAGGACAAACGTTTGGGACATTATATCAAAAGGTGAT
AGACAAACGGAGAGCATGGAATGATGTCGCAAAATGTTGCGGCTGCCATATGTGCGG
CGCGCAATGATGCGGCTTTCAAAAGCGGCTGCGCTGACGCGGCGAGCGCTTGTGAA
CATATCCGCTGCAAAAAGCGCGTGTCTGCTGAJAAAAACCGGATGCTGTTTGTG
GTCGCCATGTCGATAGGCTTTTCAGTGGAAACGCACTTGGCAAGCGGCTTCAACGGCA
ATATACGTTTTCGCGGCTCAATACCGGAAAGAGCGCGGCAAAAATTAATCGGGCTTC
AAACGCAAAATGCGCTGGAJAGGCTTTCAATACAGCATTTGCGTACCGGCTCATTAAG
GGCTGCACTTTCATCACTTCCATCAAAAAGTTGATTAATGGGCGGTTGTGGGTTGACA
TCCATATTTTCAGCGCTGCTGCCAGCGGCGAGGCATCTGTGATATACAGCTTGGAC
TGTTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
ATACTGTCTGCGGCTGCGGCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GCCGCTGAACCTGGTCAATTTTACGATACCCACCTGATAGCCCAAGCGGCTGCTTCA
TCGCTGATTTTGGCAACATCCGCTCAATGCGAGAGGCAAGCGGCAAAACCTTTGCGAGG
GCTTCGTTTTCAGGATATTGATAGGATTCACGGGATTTCCCTCAATGTGGGCAATTA
ATAGACTGGCAGCGGAAGAACTGCCGCAATGGAAGAGGATAGAGTTATTTTTCATG
CCCCATTTATATCAAGTTTGCCTGAGAAAACAAATTTTTCGCGCAAGAAAATTAATTT
TCCGATCGAGAGAGGAAACACATCTCCAGAGCTTTCGCGGCTTTCGCGGCTTTCGCGG
ATCCGCTTATCGGCTGAGGCTTATGATGAGGCTTTCGCGGCTTTCGCGGCTTTCGCGG
CTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GGCAAAAATTTGCGGCTGCGGCTGCGGCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCT
TGGCTGCTGCGGCTGCGGCTGCTGCTGCTGCGGCACTTCCGACGCGCCATGGAJAA
CCACTTAAACCGCATGATGCTGCGGAGGGGCGATGCTGCTGCTGCTTTCGCGGTAAC
GCATCTGCTTTCGCCCATGCGCTTACCTGAGTTACACTGCTGCTGATTTTTCGCGG
ATTTTCCTGCTGATTTTGAAGAGAGGATTTTCGCTTACAGCGAGGCTGCTGCTGCT
TTGCTTTCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GGCATTCGCGGCTGCGGCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
ACTGCTTTCGCGGCTGCGGCTGCGGCTGCGGCTGCTGCTTTCACCTTTCGCTGACGCTG
GGCATGCTGCTGCTTTCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
AGTTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CTCAAGATCGCGGCAAACTTTCAGGTTGCTGCTTTCCTATATGACGCTGCTTTCCT
GCTGCTGCTGCTGCTTTCCTGCGGAGAGGATTTTCGCGGAGGATATCTGCTGAT
TGCAATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GCTGCTATCCCTGCTGCGCAAAAGAAAATGCGCTCGCAACATCTTCAGACGGCAT
GCTGCGGCTTATTTCCCGGCTTTCATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT

-369-

[illegible]

-370-

[illegible]

Appendix A

-371-

CGGAAATGCCCTCGATGTGTTTTCGACGCGCGCGAGGAGTTGCCGTGGCGGCCACCA
 AGACGCGTTTGGCGCTCAAAATCGCGGGGGCGGATTTGGCTCTTCCAAAAGCGCAATACGC
 GCTCCAGCGTTACTTTACGGTTTTCGCGTCGGGTACGACATCGGCAGGCAATGGGCGAT
 AGCGCGCGGCTTTGTGTGCGGAAACCTATCGCTCTTTGTCCAAAAGCGCGCGAGGCTGT
 CGTAGCTGCGCGCCGACGATGCGGCACTTGTGCTGCGCTATTGTTCGGCGTTGTCTTT
 TGTCCAGGCTTTCGAGTTGGCCGATGTGGCGTCTGCTTCAGCGGCCACGTTTGTATGTGG
 GTACGACAGTTTGGTCGGATTCTTCACAAAGGATGTGACGGTCTTAATGGCGGGGCA
 GACGAGTGTGACGCTTTCGGAATCABAGCTTTCAGTTTTCAGTTTCTGCGGGGCA
 GCGCAGCTCTCGCGAGCGCTCTGCTGCTACGTTCACTGCGCGCAGCGCTTAACAGCT
 TTTTCGCTTCCACTTCGCTTTGTGCGTGGGGATAAATACGAGTTCCATCTGCTCCCAA
 TGCTGAAAGTGGGAAGCGCTTATTATAACATATTTCACATTTCGCGTATTGATTCA
 GATTACAGACGCGCCCATATGTTTTCGCGTTTGATTACAAATAGTCTTGTGCTTT
 ACATTCCGCATACACATGAATACGACAGCGCACGCCCCACATACCGATTCCARTACGCT
 GATGCTCGGGCGATCGCGCAACGCGGCTATCTCGAATACGCGCATGAGCGGTGGTCAAMG
 CGCGCGCTCGCTGAGTTTCAGAGCGCGCGCGGCTGCGCGGGGATTTGTGTTTC
 CATCGCGATGTCGTTTACGCGCGGGCGGAACCGGTGAATTCGCGCGCTTGTGTCG
 CGACATTTCGGTAAATACCAACCGCACGGGACAGTTTCGCGCTATGAGGCGATGTGCG
 GATGCGCGAGGATTTTACCTTTCGCGTATCCCTTAATTCGACGCGATCGGCACTTCGCGCT
 GCGCGACGCGCAAGGGCGCGCGGATGCGGTACACGGAAGCGCGGCTGACGCGATTGC
 GGAATTGCTGTTTTCGAAATCAATCAGGGACGGTGAATTTTTCGCGGACTACGACGCG
 CGCGTTTGACGACGCTGCACTCGCGCGCGCGCTGCTATGCTTGTGCTCAACGCGCG
 GTCAGGCAATTCGGTGGGCTGCGGACGATCTTCGCGCGCAAAATTTGAAGCAATGAC
 CAGCGCGGATTTTCGCGGAAAGACGCGCGCGCTGGAATTCGCGGCTGATGCGGATTA
 TATTCCTGCGCCCGAATTTGCGCGGGCGGTCAAACTACACGCGCGGAGCAATTCGCG
 CCGGATTTAGAAACGCGCAAGGGCGAGCGTTCGCGCTGCTGCGCTTATGAATTCGAA
 ATTGCGCGCGGCAATGTCGCGCTCATCTGAACGAGCTCGCGCGCAACCGCAATTCGCG
 CAATACTCTGCGGAATCGAAGACCAACCAACCGGAAACCGGAGCGGTATGAACAA
 GCTCAACCAAGACGAGCTCAATACCAAAAGCTGATGCTGATTATTCGACGCGGTGCG
 CGACGAGTTCGCGCGGACATCCGCTGCGCTGATTCGACGCGAAATTCGCGCGCT
 CGATACGATTCGCTGCGGACGCTGCGGACGCTGCGGACGCGGAGGAGGATTCGCG
 GATGAACCTTGTGATGATGCTTTGGAACACCGCGCGCGAGAAACCTGAACAGAT
 TTTGAGGAATGCGTGATTTCGCGACGCTAACGCTAACGCGCTCGAATTCGCGT
 GAACCAAGTGGAAACCGGCTGCACTCTCGAAGCGCTCTGAAGCTCTTCTGCACAT
 CGACGAAGTCAATAGATCATTCGCGAATCAGACGACCGGAAAGCGGATTTGATGCGGCG
 GTTCGGGCTGACGGAATCCAAACGCGAAGACATTTGGAATTCGCGTTCGCGCATTTGCG
 GCGTTTGGGGGTTCAAACTCGAAAGAAATTTGAACAGTTGCGCGGAGGACAGCGCG
 TCTGAATCTCTGCGGCTGCGGACGAGAACGAGCTGCTGCTGATGCGGAGGAGTGC
 GCGGATTAAGCAATACGCGCGACGCGCGGACGCTGATGCGGAGGAGGAGGAGGAG
 CGTGTCTGCGCAACCGCGCGGACGAGCAACCTACGCTGATCTCTGCGAAAGAGGCTG
 GATACGAGCGCGCGCGGACACAACTCTGATTGAGCGCAACCGCGTTCAGAGAGGCGA
 CTGCTCAAAACAACTCTGAGAGCGAGACGGTTTACCCTGCTCATCTCGATTTCATC
 GGGCAGAACCCTACGCTCGATGCGCGGAAATCCCGGAGGCGCGCGCGACGCGTAC
 GGTTCCTCTTAATCGAGCTCGAAAGCGGCGGAAACCGCTTGGGATGTTGACAGGAT
 CTGCGGACCAACATTTATTATTAAGACGACGAGCTATGCTTCTATGCAAGCTGG
 CGAGGATTAAGCAATACGCGCGCAAGCTGGTGAACGCGACGACGCGCGGAGAAC
 CGTTTTCGCGCGGCTGCGCTCTATGCTCTCTGCTTCAACCGGAGCTCGAAATCAT
 TCGCGCACAGCTCAAAACCGCGCTCTGCTCTCCCATCGCGGATTTGAAATTTATGG
 GAAAGGCAAGGGCTCGAATCATCGATTAAACGCGCGGAGTCGATGACGATACCGCG
 CGTTCTTCGAGCTGGAATCTCGATTGAAGCGAGGCGAGGCGCGCGCGCGCACAA
 AGACCGCTCCCATCTCTCTGCTTGAAGCGAAACGCGCGAAAGGCGAGCTATGGC
 CATATCGGGCAGCTGAACAGATTTCTTCCCTTAATTAACCGCGGTTCCGACATATTA
 GTGTGATTCGCTGCGCGGAGCTGAGCAATCGAAACGCGGCTTCGATCTCGATTCGA
 ACATCATTCGCGCTCCCATCGTTTTCGCTGATGATTACACATCTCGCGGCTGGAA
 CGCGGACGCGTGCAGACTGCACTGCTGCGGACGCGTGGGCTTTATGTTTGGCTGCG
 CCATTGCTGCTGCTGATTCTTTCTTCATTATTCCTACGCTTGGCAATGGCAGCTGCG
 TGAAATTCGCGGCTTTACGCGGCTGAGCGGACATACGATGATCGCGCTGCTGACCTAC
 TGTCGCGGCGCATGATTCGCGCTTGGGATCTGATCTGCTGCTCTGCTGCTGCTGCTGCT
 GCTGCTGCACTACGGGCGTACCCTGCTCTATTCGCGCTACGCGCTGCTGCTGCTGTA
 TATCAAGCGCTTTCGCGGATTCGCGGATTCGAGAACGCGCTATCTGCGATTCGGA
 CGCGCTGCGCAACCTCATCTTGTGCGCGCTCTATCTTTCGCGCATCTTCACCTAC
 TGTGCGTCAAAATACGACCGTTCGCGGAACTTCGCTACGACGCGCATCTGCGCTACC
 ACGCATCAAGGCTTGAACGCAACGCTATCGAAGCGCTTCAGGAGCTGCTGCTGCTGA
 TCAATGCGCAAGGCTTGGCGGTGCTTCAACGCGAGGCGGAAAGCTTTTCCCGCGCG
 TCGAATTCGCGACGCGCGCGCTGCTGCTGCTGCTGCTGCGCGGAGCTTCGGATCAAGCT
 CTCGCGACACTTTCGAATAGTCTTCGCGCAACCGCGCTGACGCGCGGACATCGCGCG
 TTCGCTGCAAAAGGCTTCGCGGAGCTCTCATCTGCTCATCTGCTGCGCGCGAGGAA
 TTCGCGGAGGCGGCTTCCGCTCAACTTTCGCGCTGCGGAGCTGACGCGGACCTGCG
 CCGACGAAATCCGCAACCGATGCTGCGCATTCGCGCGCGCAACGAGCTGTCGCGGAA
 ATATGGAAGCGGGGCGGCGATGCTGCTCAACGCGAAATTTGCGAAATCATGACGCGCA
 ACATCTGCGCATCGACAAATGCTCGAAGCACTTTCGCTGCTCAACGCGGCAACMAA
 CCGAGCGGAAACCATCGGCGTGAATCCGTTTGGGAAGAAATCAACAGAGCTTCTGCT
 TGGCGCATCCGATGCGCGGACTGCTGCTGCTGCTGCGGACATTCAGGCGGCGAGCGCG
 CCTATTGCAATCCGCGGCTGCTGCGGAAATTAATGGAAGCTTCGCGCAACAGGCTGCG
 GCGAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGCTCTGATCTCTTTCGCGACCGCGCGGAGTTCAGGAACACTGCTGCAACCTTTTA

Appendix A

-372-

CACCACGGGGGAAACGGCACCGGCTCGGGCTCTATCTGCGCCGGGAACCTGGGCAACGG
 CAATTTCCGGGCAATTGACCTACCTACCGGAAGCCAAATGTTTGAACCTCACATTACCGGA
 AAAAAACAATGACTGAATCTGCAACACCCCGCTCTGCTGCTGATGACGAAACCGACATTC
 TCGACCTGATGGAAATGACCCCTGATGAAATGGGCTTGGCGTCCATACCGGCTCAGGGGG
 TTGGCCGAAGCCAAAAACAAGCTCGACAGCCACGCTATTGCTGCTCTGACCGATATGC
 GTATGCGGGACGGTGGGGCTGGAGTGTCCACACATCACAGCGGCGCTGCTCGATTA
 CCGCGGTTGCGGCTATCACGCTTGTGCGACGCTGACGACGAGGAGAGCTTGCGTT
 GCGCGCTTGTGCGGCTACCATGACATCAGGACTACGAGCTATCTGCAACAATGACGCGG
 ACATCATCGAACAAACCTCAAACAACCGAAGGCAACGCGACCGCGGCCCAACAGCT
 TGGGCATCAGCTTGCTTCCATGGCTACGCTATGGAACGCTCAACATCGGCTGACGAC
 AAAACGGCATCGCCACATCTCGCGCCACCGAAAAATTCGGCTGAAACGCGACGGGA
 AAGCGGTTTGGCGCCACGCGGACCGGACACAAACACCATGACGACATCTTATTGAC
 AACACCGCCACCGAAACCGTCCGCAACCTGATACGGGATTCGCCCTTGTGCGCCGTTTC
 CACCGCGCGAAGCAGCGATTAACCTCTCTCGGAACAGATACCGTCAGCTCAGGCTTT
 GTCCGGAAAAAACAAGCTCTGCTGATTTTGGCTTGGCGCGGACATACCGGGG
 ACAAAAGCGGGGCGAATCATGCGCAAGCGCTCAACACACCGCGCACCCACCGCTT
 TGGGACGCAACCGAGGATTGGGGCGGACAGCTTCTGCTCGCTCGCTCGGGCTGGCC
 GTTACCGCTCTCGAGCAACATCTCGCGCTCGCTGCTGCTTTCAGACGGCATCGCGCG
 GCGCTCTCAATCCGAACGCAAAACACCGCGCGCATCAACCTCCATTTCGGCAAC
 CGCGCGCAACCAATGCCGCACTTGTCCAAACACAGGCAACCGGACATCTGCTATCTC
 GACCCCATGTATCGGACGCGGCAAAAGTCCGCGTTAAAAAAGAAATGACCTATCTC
 CACGCTTCTGTGGCGAACGCAAGATGAGCGCACTTCGATACGCAACGCAAAKA
 GCAAAAAAACGCTGCTGCTCAACACGCCCGCTCGGCGAACATCTTGGCGGACAGAC
 CTTGCTACCAATACACAGGCAAAAGCACCGCTTGCAGCTTACCTGCTTACGGGACG
 GACAAAGGATAACGCCCATAAACAGACACCGAAAAATTTGCGCTTCTATGCAACGA
 GAAACCGGTTTTTGGCTTTCGACTGTTTGGATAGTCATCACACTTAAAGTTTGTCTAT
 TCCCAAGAAATGGGAATCCGATTCATTCAGTTTATAGTGGTTTAAATTTAAACCACTA
 TAGTTGTTTTGAGTTTTGAGCAACCTTCCAAACCGCTATTTCCACGGAATGGGATCTA
 GAATGAAGGACACAGGAATTTATCTTAATGAGTTCAGGACGATGATGATCTC
 CTACCGCGGAATGAGCGAGTGGCTGTAAGTTCCGCTCATTCGCTGAAGA
 CGGGAATCTAGACTCTGATTTTTCAGAGACTTTTGAACATTCGCGGACCCAATGAT
 CTGGATTCCGACTCGCGGGGAATGACGAGGTTTCAGGTTGCTGTTTTAGTTGCTGTT
 TCGGTTGCTGTTTTTATGGAAATGACAGGTTTAGATTGCGAGATTTATCCGCTCC
 TCGCTCATTCGACGGAAGTGGGAATCCAGAAATGAAGACACAGGAATTTATCAATAAA
 TGACGGAACCGGACGAGTACTGATTTCGCACTCGCGGGGAATGACGGGCGGGAGATGC
 CBTCTGAAATTCGCTGATTCGCTGAAGAGGGAATCTGAGATCTCTGATTTTCAGAG
 ACTTTGACATTAATGATCCGCAACCAATATTTATTCGCGGAGATGACAGGAT
 TAAATTTATCCGGATTCAAAAGACAGGCTTTCACATCTGGGATGACGCGGAAG
 ATGATTTTATAGTGATTAAACAAATACAGGCAAGCGGACGAGCGGACAGTACA
 AATAGTACGGCAAGGCGAGGCAACCGCTGATGTTTTTGTAACTCACTATATTTGCTC
 ATAAAAATCGCACCTTAACTAGTTGGCGTTAAATCAACCTTTAGGGTGCAGATTACT
 TTTTATGATTTGACAGAGCATTTTGAAGGCGGCGACTATTTGCGCATACCAAAAACT
 TAATCAGCAGTTCTTTGATACAAACCGACACGCGCGAGCGCAAAACCAAAACAAA
 TGGCATACGATATTCGCTGTTTGGATCTTTCGCAATTCGCAAGCAATAAACCA
 AAAAAATATCAGCGGCTCAGGAGATTTTCAAGCCCAATCGCGAAAAACCGCTCAT
 CCATATTTTTTCTTATTTGATGTGATGCAATATAGTAAGGGTTTCAGACGGCAT
 CTGCTGTCCAATGCGCTTGAAACACGCAATCAGGTGCGAGTGCCTTTTCAATTCGTC
 AATCAATTCGCAACATATTCAAACCGGACGACGCGGACCAATCGGGCGGATGTT
 GGGCGAGTTTTTCTCGGGCTGCACTCTGCCCTGCTGGTTGTCACGGGTGGTAAAT
 GGTGAGGCGCAGCTCAGCGAGTTTGGCGGTGCGGGAAGAGATTCCAGCGCTCCACAC
 TTTCCAGCGGCTCTGTGCGGCACTTCAAGCGGATGACGAGTTCGCGCGCTTTG
 TTTTCCGATTAAGCGCGCTGAGATGCTGCGACATCTGGATCTGATACAGCGCTTG
 AACTTCGCGCTGCGCTGCAACCATTTGTCGATTTTCAGGGCTTTGTGCACTGTTTTTC
 CATACGACGACGACAGGTTTTCCAGCGCGCTCAACACTGCGACCATTAACCGCGGACAT
 CGCCAGCGCGCAAGGTTGCAATACATGCGACCTGCGGCAACCACTTTCGGAACCGCG
 CAACACGCGCCCATCACACGCGCGTGTCCGCTATGCGTTTGTTCGCGAGGAAACGGA
 AATATCGCACCGCTGTTTCAAAGGCTCGGACGCGCGGCGACGAGCGCTGTTGCTAC
 CACAGAGAGCGCGGATCGCGCGCAATTCGCGAAGGCTTCCAGTCCGCGCATTC
 GCTTAAGGCTTTTTCGCGGCTTCAAAACAGGCTTGTGATGCTTTGAGGCTTTCAGAGG
 TTTCCATTCGTTTATATGACTGCGGCAACGCTGCTCATCTCGATGCGAATTTGCAAC
 GATGTTATTGATAAGCGGACGCTGTGCGCAACAGGCTGCGGCTGGAAATCATATGCTC
 GCCCGCTTCGAAAGGTTGAAACACGCGCTGTAATCGACATACCGCGGAGTGGC
 GACCGCGGCTTCGCACTTTCCAAAGCGCGGATGGTTTTTCAAAGCGGCTGTGCTCG
 GTTGGCGGTACGGGATATAGTGAACCTTTGATTTTTTTTGAACAAATCGGCAAGGCTG
 TTGGGCTGTGTCACATGAGCTGCTGTGCAAAACATGCTGATGCTGATGTTTGGCGTA
 CTCTGTTGTTTTCGCGGCTTTCGCGAGCTTTCGCGGCTTTCGCTGATGCTGATGCTG
 CGGTGATTTCTCGGTTTTGCTCTTCGCGACGCGAGCGCGCGCTGTTTAAATTTCTT
 AATATTTTGGCGCTGTTCTATGATGTTTCAAGTGGATGAGATGCAATGCGCTGTA
 AACGGCTTCAGACGGCATGGCAATCAGCGTTTGTATTTTAACTGCTACTGATGCTGTT
 GAGGATTTTGGGACATCGTGTTCACACAGCTTCTGACTACGCGCGCGCGCTGCTCGT
 GACGATCTGCTGGAGCTGATAGGTAAGGCAACGCGCATGCTTTTCACCGCGCTTCGAT
 GCTCGGTTGACGATGAGCTGCTGATGAGCGCGGAGGCTTTCAGCGGTTTCGCTGAG
 CTCCTGTCGAGTTCGCGACACTTGGCGGAGCTTTCGCGGCTTTCGCTGATGATGATG
 GATTTGAGCGGCGTCAACGTTTCTCGCATCGTTTTTCCCGTTTTTCGAAACCGCGCG
 CTCATTCGTCGGGATTCGCTCGTGGCGTTTTTCCCGCTTTCATCTGTCGCGTTTTT

Appendix A

-373-

AAAATCGACACTGCTCTTTTTGGTACAAACGGGATCTCCGCGCGGATTGCGATGTGTTT
 TTCCGAAACCGCATTTCGACGGGAAGCGTCGCGGTTGAGCCAGTTTCTCGAAGGACGAT
 CATCGGGTCGGTTTCGACTCTCTCGCCGCAATCGCAACGCGGCGATTGTCTCTCTCG
 CCATTTTTTCAGATACGCTTCAACACACGGGCTGCGGCTCATCTGTCAGATTTCGGGCAC
 AGGCGCGTCGTTCCGGTTTCAGAGGGCGGGACAGCGCGCGTAAGTCGGCACTGCCTT
 CATACGGCGGGCTGACCGAGGTTTCTCAACAGTTTTCCTCAATTCGGCTCTTATTTCGG
 ATCCATTTCGGCTTCGGGTTCTTAATCTTTGCAAGCAGACAACCGCGGCGCAAGAGCG
 GGTTCGATATCGGCGGCACTTTACAGATTCGGAGATGCGATCGGCGAGATCGAA
 CAGCGTTTGGCAATCTGGAAGAGGCGAAGACGCTGCTGCTATCGAGACACATCTCTG
 TCCACGCGATTCAAGCCTTAATCCGCGCCTTCCCGCGAAGCGCGGAATCGGGCTG
 GAGTCGATTACGTTGCTTTGAGGACGCTTGGCAGATTGAGCTTAGAGGACAGCGCG
 CATACGGATTGTCTCCACGACGTTACTTATGCGTTTTCGGTGAAAGAAGCTTAATTT
 TATGTTAACTGATTTTTTAGGCTTTTGATTACCGAAGGAGATTTTGATGAATATGA
 AAATGGATTGCGCGCGCTTCTGCTTGTCCGCGCTGGCGTGCTGCTGCGGGCGTCAG
 GCGAAGATACCGCGCGCTTCCGCTACACCGCGCAAGATGTAACGCTGGCTCCAC
 GCGGATTTGCCCTTTGAATCTTAGACTCGAAGGCAATGCGAAGTTTCGATCTG
 GATTGTATGACGCGATGGCGAAGCGGGCAATTTTAAATCGAATTCAAACACGAGCG
 TGGGACAGCTTTTCCCGCCTTAAACACGCGGATCGGGAGCTTGTGATGTGCGGGCGTA
 ACCATTACGACGACCGCAACAGTCTATGAGACTTCAGCGACCCGATTTTGAATACCC
 CAAAGCTGCTCGCTTCCGAAAGCGAAAGATATCTTCTTCCGAAGATTGAAAACAGT
 ACAAAGTGGCGGTGGTAACCGGCTACACGGGCGATTTCCTCGATCCAACTTTGGGG
 ACGCAATCGCAAAATCGCGCGCTTTGAAAGCTTCCCTGATTATCAAAACATGAA
 AACGGCGGCTTGATTTCTGCTGTCAGCAGCGCGGCGTATCGCCATATGTGAAACAC
 AATCGCGCAAGGGATGGACTTGTGTACCTGCGCGACTTCACACGCAACATACGCG
 ATCGGGTACGCAAGGCGACGAGCAACCGCTCAAAATGCTGAACGATGCTTGGAAACAA
 GTACGCGAAGCGCGGAATACGACAGATTACGCGAAATATTTGCAAAAGAACGCGA
 CAGGCGCAAAATAGCGCGCGCTCCGACACAACTGCGCTTGAAGCCCTTCACAGCG
 CATTTGTCATCAATCGGCTACATGAACGCTGCTGCTGATTTCCTACCGCAAAAGCA
 CAGCGAAGATTAACAAATTAATGATTTGCTTTACGTCACAAAGCGTGGCACTATTTCAC
 CTGATAAAAACAGCTTCTCAAAGGCTGTGTTTAAACAGCAGCAGACATACCGCAAC
 ACCTTGAAAGGACACAAATCATGACGCTCATCAACAGCAGAGACTTTATCCAAAGCAT
 TGGGATGCTTCAATTATCATCAGCTACTATCATCCAAAGACTACATGACGCGTTTAT
 AAGGCGTGGCAGGAAGGAAATCTCGCGCGCAAGACGCGATGACGCGATTGTGCT
 AACAGCGCTGTGTGTGGGAAACACCGCGCCATCTGCGACAGCAGGATCGCAACG
 GTCTTCTCAAAGTGGTATGAACCTCAATGGGATGCGGACATGAGCTGGGAAGAGAT
 GTTACGAGCGCGGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CTTCGCGATCGGCGCGCAAAACGCAAAACCAACAAACACACACACCGCGCTCATGCT
 ATGAGCATGCTGCGCGCGCGTAAAGCTGAAGTAACTGCGCGCGCAAGGCGCGGCTCT
 GAAACCAATTCGCAACTCGCCATGCTCAATCTTCCGACAACTCTGCTGAGGTATTG
 AAAACCATCCGACCATGGGCGGGCTGGTGTCTCCCGGCATTTGGGTATCGGCACT
 GCGCGACCGCCGAAAGGCGCTGCTGATGGCAAGAGTCCCTGATGAGCCATCGAC
 ATTCAAGATTTCAGGAAAGGCGCGCTCGCGCGGAGATTGTCACACCGAAGCGCTG
 CGCTCGAATCTTTGAAAGATCAACGCGCTGGGATGAGCATGAGCTGGGCGGGA
 CTGACCACTGGTGTGACAGTGAATCTCGATTATCCGACGACGCGCTTCCAAACG
 ATTGCCATGATTCCGACTCGCGCGCCACCGCGCACGTGAATTTGAATTGGAGGCTCA
 GGCCTGTGCAACTCAAGCGCGCGCGCTGGAAGCTGGCCGATTGACTTACAGCCCC
 GACACCGCAACGCGCTGATGTGCAAGCTGACCAAGAGAAATGGCAAGCTGGAAAC
 ACCGCGAGCTATTGCTGTGAACGCGAAATCTCTACCGCGCGGATGCGCAACAAA
 CGCTCTGCTGATGCTCAACAAAGCGGAGAAATTCGCGCTGCTTATTCACCAACCGCTG
 ATTTGTCAGCTCGGCGCGGCTGCGATCGGCTGCAAGAGTGGCTGCGGATGCGGCTG
 ACGACGCGCGCGGACGACCAATCTGCAACCGGCAATGCTGCAACAGCGAGCTCTG
 GCGATGATGCGCAATCCGACGCGGCTGCGCACTCGGAGGCCATCGCGACACAAA
 CGCGGTGATCTGCAAGCAGTGGCGGCGCGGCTGATCTGCTGCAAGCGCTTTTGGCAAGG
 CGCATCCCGCTTCACTTAGAAGCGCGCGGCGGAGATGCGCATTTGCTGCTCGGCT
 CTCGCGACGACGAAACCAACATCTGCTGCTGCAAGTTGCGCGCGACTGTTCACAT
 CCGCGCGCGATCGCGCGCTCGCTTCAAGCATCTGATACCTGACGCGCAACGCT
 GBAACACGAAACGCGGCGGCTTCTATTTCCGACGATACCGCAACATCACTCGCGCA
 ACAGCTGCTTTCGACGAGCAGTTCGCAACGCTGATACGCTGCGCGGCTGCTGAGGTTT
 ACGTTTTGACAGACGCGCGCTGCGATGCTCATCATACAGCGCGCGCGCGGCTGCT
 TGTGCGACGCGCATTTGCGCATCTGCGCAAGATTTCGCGAGGGGCGGCTGCCAAT
 CTGCGCGCTTTACCGCAACACCGCTCATGCTCCGCGCGCGCAACCGCTCATCATGCA
 AGGCGAGCAATCTATTTCGCGCGCGCGGCAAAACATCGCGCGGCTCATACCGCAAT
 CGCGCCCAAGAAAGACGACCGCGCGCATGATTTCGCGCGGCGCGGACATCGGCTA
 CGCTTCGCGCAAGCTGCAACCGCTACACGCTCAAAATCTGAAATGCGCGCGCGG
 CGCTGCGAAGTGGATGCGCGGCTGATACGCTGCGCGGCTGCGCGGCTGCGCGG
 CGAGAAACCTGCGCAACGGAATCATCTGACGAAATCGGATTTGCGCGCTGAC
 CAACGACGAGCAAGCAATATCTGCGCGCTTTTGGCGAAACCTCGCGCGCAAGCG

-374-

CATCTGCGCATCGTCAACCGCTCAAGCTGACGATTTGCTCGAGGCCAACAATAATG
 CATCTGCTGTCGCCCAACCTCATCAACCTCGGCTGGATTCTGCCGCAACCTCGCGCGG
 GCATCTGCTTCGGCTGCACCCTATCGCGGGCGACGCGGAGCACTAGNATGTCTGTGC
 AACCGGCGACAAAAAAATCTCGCATCATCTGCGCGGACGATCGCGGCATCAATAGGCG
 GAAGAGCTGCGTACAGTTCGCTGCTGCGCGCGGACGCGGCAACCAATATTGGGACGA
 TCGTCAACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 CATCTCTGAACACGTGAAACAACTCATCAAGTCAAATGGCTTTTGTGGATAAAACGCG
 CCGAATTCGGCATCATCTCGCGTCAAGCGGCTATGGAAGCGGGAATATGTAGTGGGGCTT
 CAGAGCGCATCGCGCTCCCGCTCATCTCCGCTAAGCGGCACTCAGACGCTTGGATATG
 CGCCAAATATCAAGGTTATAAAGACCGCTCATCTCCGCGCAGCGGGCAATCCAGACCT
 TGGGATATGGCGCATTTTCAAGGCTGTGTGAATTTTAGAGGCTTTAGATCTGGCGCTTT
 TCGCTCGGAGAAATTAAGAGTTTAGATTCGCGCTCTCGGGATATAGAGATTTTCAGC
 GGCATCGCTCGCGCTTTTGTATATAGGGCAGCCCCCGGCAAAAAACAATCGGAAAT
 CATCTGACGCTTCGGGCTGTTTATAGGCGAATCCGGCATCAGAGATCATCTGGCGAAT
 CCGAATTTAGCTTCCGCGATCAGGCAATCTGTGTGATCGAGACCTTTGGCGCTCAAAA
 TAAAGTCGCTTCGTTGTGGCATTACCACGCAAAAAATGAATTCGTTATATTCGA
 TCGTTTATTATGTTTATTATGATGAGCGGACGAGAAACCGGCTTGACATTTGTTT
 TCGCTCGGAGAAATTAAGAGTTTAGATTCGCGCTCTCGGGATATAGAGATTTTCAGC
 TGTCTGATCGAGGCTTAGGAAACTGCGTTTCAAGCGGATTTTATTATAGCTGTCTCAT
 CCGTCAATTTTCTGTCATATTCGCGAAACCGGGAATCTAGAGCTAGGGTTGAGAAAGC
 TTTCTATCGATAGATTTTCGTCGCGCAGGCTTGATTTAGCTCGCGCGGAGAGAGCTG
 CGTACGCTGGCGAGATCGGCTGTGAGCGCTGACGAAGATTTAGATTCGCTGTGAATCTG
 CGCATTCGGCGGATGAGATCTAGAGCTGAGGTTTGAAGAAACGTTTGTATCGATATG
 TCGTTTGTGGAATAGCAATTAAGCTCGTCAAGTTTGTATCTCGCGCAATTCGCTGTT
 CAGAGCGGATCTGCTCTTTTTCATCATCGGTTGTAGCGATTAATTTTCACGCC
 TGGCGGCAAAATACAGTTGTCTAGATGACATCCGGCGCGCTCTGCGCTTGTCTCT
 CAATACCGGCTATGATACACCAACAAACCCGCGCTGGGTTTTCAGACGGCATTCGGGT
 GCTTTTTCAGCGGATATGCGCTTTTATCGGACGAGATATAGGAGGAGCAAAATGAA
 TCGGAGGAGCGGATGAGGCTTCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 CAGCGGATGAGGATCTGTGATTCGCGGCTCAAAATGTGTCTTATCAAGCGGATATGAC
 GCGTTCGCGCAAAATCATCTGGCGCTGTGGCGGCTTCTGCTCGCGCAGCAACCATC
 ATCGCAACAATCAGCAATCTAGGAGAGCTTGACATCTCGCGCTACAAATATCGATG
 TCTGGCAGCGGGGAAATCATCGATCGGCTCGCGACAGCTGAATACGTCAGCTTGGC
 AGGCGCGCTTCTGCCCTGTATGATGTCGAACGGCGGTGCGCGCTGTTCGAGATATCT
 CGCCTTGGCGCATCGCGGCTGTGCTTCGCTTCGCTTCGAGATATTCGCGCCCAACT
 TAAAGGAGCGGATGAGGCTTCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 TCGGCTGCGGATCTGTGATTCGCGGCTCAAAATGTGTCTTATCAAGCGGATATGAC
 GCGTTCGCGCAATCTGCGCATATGACGCGCTTCTTCTATTCAGACAGCTTCTGAC
 GCGAGCACCAAGGCTGCGCATCGCATCTTGGCTGTTCACAAATGAACCTCGGCTATC
 GACAGCGCTTTCGACCGCGCCACAGCGACGCGACGGGTGACGCTTTCTGCGCTGC
 ATACCGCGGGTGGTGGCAAGAGCTCGGACCTTCGCGAGAGCTCATAGCTCGCGCAAGCG
 TACATCTCGCGGAGATCTCAAAOCTTTGGAATCGGCGAGCGAGACGCGCGCGTAT
 CATTTGGCGCTATCGGACATACGTTAAAGAAATGCGCTTCAACAAATGTTCAGACGGAT
 TCGTTCGAGATATCTGCGGCTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG
 TCGGCTGCGGATCTGCGCATATGACGCGCTGCGCGCTGCGGATCAGGACATACACCA
 CTGTTTGGCAATATATCAACTCGCGCTCGAAGCGGGCGCGCTTCAATCATATCGA
 CCGTTCGCGGATCTCAAACTCTCGCGCTCGAGCTCGGACATTTGCGCGAGCGGCGG
 CCGTTCGCGGATCTGCGCATATGACGCGCTGCGCGCTGCGGATCGCTCGCGCGCGG
 CCGTTCGCGGATCTGCGCATATGACGCGCTGCGCGCTGCGGATCGCTCGCGCGCGG
 CCGCGAGATTCGCGGATCATCTCGGATTTTGTGTGAAATATCTCGCGCGCGCGAT
 ACAGGACAAACGGGATTTGCGATCGCTGTTTTCGTTTGTGAGAAACACCTGCTGCT
 CGCGCAACACAGGCTCGGCGCTCTGCGACGAACCTTCTGCGCGCGCGTCTGCGTGCAC
 GAACTTCGACATCGCGCTGCGCATCTTTCGCGCGGATCGCGCTCTCTCGACAGAT
 AAGATTCGCGGATCTGCGCATATGACGCGCTTCTGCGGATTCGCGGATTCGCGGAT
 ATATATAGCTATTTAACTCGCGCATTTCTCAGCGCGGAGCGGAGCGCAACGGCTAT
 TATATCGCGCGACACACAGAAAGGACAAATATGAACCAACGCTTTTACCTTACAC
 GCGCGCGCTGTCAAAAGCAATCCGCGCGGGCGGCTGGGCGCTGTATTCGCTACGCT
 AGCCCAACAAAGAAGACTTTTCGCGCGGAGAGCGCAACACCAACACGATCGATGACCT
 CTGCGCTCATCTAGAGGCTGAATGCTGCAAGCGCGGACGCGCATCATCTCGAC
 AAGATTCGCGGATCTGCGCATATGACGCGCTTCTGCGGATTCGCGGATTCGCGGAT
 TGGAAACAGCTCTCAACCGGCTCTTAAACAGCGACTTTCGGAAGAGCTCAGCTCT
 CTATCTCGCGGCTCATCGTCACTTGGTATGAGGAGCGGAGCGGAGCGCGAA
 AACGAGCGCGCGGACGATTTGGCAACATTCGCGCGCGGACGCGGATTTCTCGCTCGCGCT
 CGCGCAAAATTCGCTGTAAACCGCTAATGGGCTACGAGCGATCTGCTCTCAGCTCAT
 TCGCGCGAGCGGAGATCTCAAAACGCTCGGACAGCGCAATATTCAGATATTCGAA
 ATGTTTGAATGCTGGATTCGCTTTCTCGGGAGTACGAGAAATTCAGATATTCGAA
 TCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 TCGCGCAAGTTTATGAAACCACTGAACCAAGCGAGTTCCTCCGCTCGCGCGG
 ATTCGCGGATTTATGAAACAGCTAGCAACCTCTCGCGGACCTTAAGGCGGCTTCGCGG

Appendix A

-375-

CCGTAGCAACTGCCCTGTGTGGGAATGACGGCAATGGGCTTCAAGCGGACTCTCTTGGCT
GCCGCTAAACAGATTTGCCGCAACAATGTTCAACAGCGCTCGATATGTTTCAACACACAG
GACGACACATAAGCACTTCCCTATGTCTCGTCTGATTGGGAAGGGTTACACCCCTC
CCAAATAAAGTCTGATCCTCGGCCCTTAAGGGCGGGGTTTCAACGCAAAAGGAATACG
ATGAAGTGGTACAAATTACCGGCAATGCGGACGACAAJATTAAACTATAGTGGTTAAATT
TAAACCAGTACGGGCTTGCCCTGCCTTAGCTCAAGAGAACGATTCTCTAAGGTGCGTAA
GCACCACTGAATCGGCTGTACTATTGTGACTGTCTGGCGGCTTGGTTGCTTGTCGTG
ATTGTTGTTAATGCTTAATACAGAAATACCTAGCTGTTTAAACACACTTCAGGAAT
AAGGAAAAATGACCGGCCCAACCTGCGCCATCTGCAAGCGGCAAAATGAGACGCTTTTGC
TGCJAACCCCAACACTCCGGCTCATCGGCTCATAAACGACAGGGTTTCGCTGCAATTCT
GCCGCGCTCATTTGGCTTAAGCATATTTCGGGAATGACGACCTTTTCGACGCGGAACGCG
GCGAATTGATGAAATGGTGTACAAAGTCGAAGCGGCTATGCGCAAGTGTTCGCGCGCG
CAAAATCAACCTCGCGCACTTGGGCAATGTCGTGCGCACCTGCAATTGGCATATTATCG
CCGCTTTGAAACAGATGGGCTTTTCCCGCGGAGTTTGGGCAACCCGCTCGGGAAC
ACGATACCCCTCGCGCAAGTTGACGGAACAGCTTAAAGACGCTGTTAAGCGCGG
GATGCGCTCTGAJAACTGATGAAGAGGAATATAGCGCAACGCACTCCGCGCGCGTT
TTCTGAJAACTCGACCGCGCTGCGGCGCGGGCTGCTTACGGTTTGGCGCACATCG
CCACATCGCTTCGCGCCCTTCCCTCTTCCCATTCGGTTTGGAAGCGCAACGCTGCTC
TCCJAACGCGACCGCTCAAAAGTTGGAACGGCAACCTTTCGCGGTTGTCGCTTCGTCAG
GATTTCGCGAAGCAACCAACCGCTCAACACAGCTTAAACCGGCTTACAATGTCGGTT
TTACGCTAAACCAACAGCGCGGCGACGCGGCTTCCACGGTTTCGCGCACGACGACA
CGACAGTGGCGGCTTTCCAAAGAGTGGCTTCGCGCGCTGCGCACGCTAAAGTGC
TGAAGGTTTCGCGGGGCTTACGGTCGCGCGGAGTTTGCGCATATCGATTTTGCCT
CGCTCGGCGCAAGATGCGCGAACACGACGCTCTTTTCGGATTGACGACGATGCGG
CCGTCGAGCTGGCATTGTGGCAAAAGCAATATGATGAGTTTTCGCGCGCGATCGCTT
ATAGCGATTTTGGCAAAACCGCGCCCGGCTGCTTACGATGAGTGCCTTATCAAGGCTG
CAACCCAAAACGCTCGACGCTGTATGTTCTTATATCAACGCGCGATGTCGAACCG
AAGCGATATTGTGGGCGGCAACCTTAAGCGCTCGCGCTGCGTGGCGGACGCTTATA
TGGCGGACATGACGCGGCAATTTTGTCTCGAAGATGTCGCGGACAGCTTCACCGCA
TGGACGATGTCGCGGCAAGCTTGTGCGGCAAAATTCGAGATGCTATGATCGCTTATGATT
TTCGCGCTTGCACCACTGTTTTCGCGACGGGCAAACTCCCGTGTGACGGGCTTCCGCT
TCGACACATTCGCGCAAAATCACTTTCCTCTGAGGCGCGCAACCGCAATCCCTATGA
ACGGNAACAGCGGCTTATCGGTCGCTTGAAGGCTACCCACACTCGATGCGTCCGCGC
TGACTTTGGATACCTGCTCCACGCGCGGATTGCGCATTTTCGCGGAAGAGCGGTGTTG
CGGATTTTCGGAATAAACCGCAACAGGCAAAAGCGCTGTGAAGCTTCAGACGGCAT
TTCGAAGCGCGGCTTGTACAGATGTCGACAGCTTTCGCTGCTGCTGATCAAGGCA
TAAACGCGGCGCAAAACGCTGACACATCTCGCGCTCGCGCTTGAAGGAGATTTGGA
AGTTCCTATTGATGTCGCTCTGCTGCGCTCTCTCTCCCAACCTCGGAGCTTCAACACGA
AATCTTTAAACAGATGATTGCTTTTATCTTTCGCGGTTTGAAGGATTTCAGTAGGCATACA
AGGGCGCGCTATTTCGCTCACTTCACTTCGATTTCGGAATAATTAJACTTCGTGCGCAA
ACTTCATCATACACTTGGGCAATTTCTCCGCTGCTTTCGGAGCGCTGTCGCGGAAT
GGTTGACGGAATAACCAAAATCTCAAGCTTCTCGCGGATATTGTGCTATACAGCTTCT
CGAACGCTGCTATTTCGCGGCTGACGACCGCAAGGCTTGCCTGTTGACATCAAGGCA
CTTCGCGCGCTTACGCGTGAACAAATCAACCGCATTCGCTTCTGCTCTTATTGAAAT
CGTAATTAACCAATTTTATCTTATCTGATGTAAACGATGCACTGAAAGCTGCTTCA
GACGCGATGAAGCAATTTGATAGCCGATTAJAAATAAAAAATCGACATCTTTTCCA
TTCGCTCCCACTCCGCAATAAAAACTGCAACCGCAAAACGGTGCAATGCTCATTTTCA
TACGCAAAACTTATTTCGCGGCGGAATACGATTATTAGTGGCTTGAATGGCGACACAG
ATTGCAACGCGCATTAAGACCAAGTCACTGCGCTAGTACCCCAACGCAAGGCTTCAGG
ATTTCCTTTTGAAGCAACTTTCGCTGCGGCTTACGACGCTTCCAAACGAGCTGATGAGGCG
CCGATTCATGCTGCGGCTTACCGCGCGGCTGCGGAGCTTGAAGTATACGCGGCGCGG
TTGAGCGCCGAGAACCCCAAGTCACTAGTTTGTGCTCAACTGCGCGCTTCGTTTCAAA
TAACGCGCAACGCAATACGAAGCCCAATGCGCAAGACGCTGACACCAACAGGCG
GCGTGGCGCTGAACGCGCAAGTGTTCACACTTGGATTAGAACAGGGAATCGCGGA
TTGATCAGAAAGCGAATACGCGCGCAACGATATATCCAAAGCGGACTGCCACGAAG
CACATCAGCGGCAACGCGGCGTTTCGCCACTCGGACAGGTTTGGTAGACCAAGTGT
TGATGCTGTTACGCGCGCAACACACGCGGCAACACTTCCAAACGAGCTGATGAGGCG
CCGATTCCTATGCTGCGGCTTACGCGGCGGAGAGTACAGGTTGCGGCGCGCGG
ACGCGCGCAACATAAAGTGGCGACGCGGCAAAAGTGAAGCATGTGCGGCTATCGCG
CGGCAJAGCCCATATTGTAGAAGCAAGGCAAGGCGGCGAGTGGCAATACTTCGAAG
AAGCTTCTACCAACAGGTGAACCAACCAACGCGCGAGTATTCATACGGCAATCGGG
GATTTTTCGCAATGAACAGGCTGGTGGCTAGAAATACGCCCAACCGGACTATAGAGCT
ACGAGATAGCCCAAGGTTTTCGCCACGCTTTTCTTAAAGCGGAACCGTGCACA
CGCAACTACAGAACCGCATACAGACAGCCGACATCAAAAGAGGTTTGCAGAAAGCT
CCAAATCGAGGATTTTAAACCTTTGTTGCGGCTTACAGGATTAATTTGCGGGAAG
ATTGCTGTCACAGCGCAAGGTTTGCCTGCGGTGAAGAACCGGCAACGATGAAGGCG
ATATAGAGGAAGTTTACGCGCGACGTTCGAATCTGGGATCTTTCGCGCTTGAACATC
GGCGGAGCAACAACTGCTGCTCAAAAGCGCTTTCGAATCGAAGATCGCGGATTGG
ATGTCGCAAGTACGGGTACGGGCTAGCGGAACGCTCGGACATTCJAAACCCCAACGCT
TCGCTCAATGCGGTAGAAACCTGCGCTCTGACGGTGTAGTGGCGGCTGCTCGCGCACG
ATACTGTTTACCAACAAACAGGCGACGCTCAGAGAGAGCTATTGCGCAATGCTTTTTC
GAACGGGTCAAGTATTTCGAATCTGCGGCTTACAGGATCTTCCATCTCTGCTGCT
TTGCTCAGAAAGGATATCCCACTCAGCAACCGATCCGCAACAGAGTCAAG
CTGGTGAATGACCACATATAGTTTTCAGTGGTGGTACGTTGTTGATCAAGAGTTCTGTC

Appendix A

-376-

GGCCAGTTGTGGGTGAAGTAAATCTCTCGCAGGAGCGTGGTGAAGCAACCAAGAA
GTCCAGAAAGAAAGTGAACAGTCTTTCCACCGCTCTTGGCTTGGCAATGATTGTTT
TTCAATTGCAAGGTGTCGCGAGTGGTTTGAACCTAGGATCGTCGCTGTACACCGCTGG
TAGTAAGGCAGGATGCTTTCCGATGGCTTCAACGCGGTATCGCTGATAGCAGCGCTCGCG
TCTTCTTCCACCGGCTTGATTGCGGTATTCTGCGGCAGCGCTGTTTCAAGCAGCGGT
TGTTCTCGGGGGAACCTCTGTCGAATTTTTCGCGCTAAGTCTGTGCGCGGTCAAACTG
AACGAGCAACCACTCATGATGCGAGCAGCTCCCGCTCCAGCTCCGAGCGTGATATGCA
CGCTGCCCAAACTGCAACAGGACTATCCCGCGGTAGTGTGCCATGCAAGTCACTGCT
GCCAAATAATCGCTTTTCCGTATCAAGCACTGTCGCGGATGCGGAACAGCACTGTTCGGGG
TAAGGCGGGGCTTTTTTTGTAACCTCGCTGCCCATATAGCCAGAATGTTGAAGCATACC
GCCAGAACGGCAACCAAGTACCAAGCTTCTTGATCTGCCCATTTTGAGAGCTCCTT
TTTAATATAGTGGATTAAATTTCAAAATATGAATGTTAAAGATTGTAGCAGCGTTTAC
CGCGCAATTAACCATTTGTTCAAGGAACCTCACATATAAACCAATACATATATGATATAT
AACTATCATATATCTTTAGTGGGCACTACCTCGCTTGGCTGATTGTGCGAGGCGCTT
AAGCAATCAAGCTTATTATGTAATTTGTAGCTATAAGGATATAGCACTATCATTT
TAAGTCTATATTTATGAATATTTGATCTAAATCAAAATGCCCAATGGGGCAACGC
ATAATCACACCAAGCTTTAACCAATCCTCTACTTTTCTTCAAAAGGAATATATTATG
AAACGCCAAGCGTTAGCTGCAATGATTGTTCTTATTTCGATTAGCGCTTCGCGGCGGC
GAACCTCGCGGCGAAGCGCTCGCGGAACCCCTGCCGTCGCGCGAAGCGCAAGCTCC
CGCGCAAAACCGCGCGGAACCGTCCGCGGAGCTGCCCGTATGCGATGCGGTATACC
ACCCAGCGTCCCGAAGTGCTCTGCAATGAGCGGACTACCGCGCAAGGTCCGCGTA
AAATGGAACTCTGAAAAACCTATGCACTGAGAGCGGTGTGGATATACGCTACTGG
ACATTTGAGCGCGAGCTTTCGGGCGGTATGATCGCGCTACGCGAAGCGATACGTTGAA
GTGGAATTTTCCACAACCTCTTCTTCACTCGCGCAACGCTGCACTTCCAAGCGGTCT
ACCGGCCAGGGCGCGGCGCGCGCGCAACCTTACCCTCCGGGCGGTACTTCCACATTC
AGCTTCAAGCCCTGCAACCGGGCTGTGACATCTACCACTGCGCGCTGCAACCGGTGCT
ATGCACTCGCGCAACCGGTATGACGCTGATTTTTGGTCGAGCGCTTAAGAGGCGCTCGCG
AAAGTGATATAAGAGGTGTCACATGTCACAGCGGACTTCTACCCAAAGCGAAAAAGCG
CGCGAAGGTCTGCACAGCTCGATGTGCAACAGCGCTGTGCGAAGCGCTGAATGACG
GTATTCACGGCTCTGCAAGCTCTGCGCGCTGCGCAAGCTGCGAAGCGCTGCGAAGCG
GAACTGTACGTATGTACTGTTGGTAAGCGCGGTCCGGAATTTGGTATCTCTCTCCACGTC
ATCGCGGAATCTTGCACAAAGTTTATGTGTAAGCGCGCAACTGATTACGAAAAAGCTA
CAAGACCACTATGTTCTCGCGGCGGCTGTGCCATCTGCAATTCAAAGTGCACATCCCG
GGAGCTACACTTTGGTGACCACTCTATCTTCCGCGCATCAACAAAGCGCACTGGGT
CAATTGAAAGTAGAAGGTGAGAAACCTGAAATCATGACTCAAAATTTAGTGATATACC
GCTTACGCGGTAAAGGTGAGCTCTCTGCTTTCGCGTCCCGAGCTTCTCGCGCGCA
GGCTCTGATTCGCTTTTATGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT
ACTCGCGCTGACTCATTAAGCAACCGCGGTGTTTTTAACAACTAATCTTCTCTTTCG
GAAGATTGATTTTAAACCGCTGTGAGAGGCTTTATGAAGTATGTCGGTATTATTTTCT
CGCGCGGCACTCGCGGCACTCAAGCGCGGCTGCGGAATGTTTCAATCGAAGCGCG
CAGCTACCGCGCGCTTTATCTGAAAAAGATACCGGCTGATTAAAGTCAACCGTTCAA
ACTGGATAAATATCCGTTTACCAATGCGGAGTTTTCGGAATTTGTCAACAGCGCACCCCA
ATGCGAAAAGGCAAGATCGGTTTCAACAGGCAAGACCGCTTACCTGAAGCTTTGGAT
GAJAAACGGCGAGCTAGTGCGCGGAGCGGGGAJTTAAAGCAACCGGTACCA
TGTTCTCGGTTTTCGCGCAACGGCTATTCGCGCGCAAGGCAACGCTCGCGACAT
TGAGGAATGGGAATTTGCCGAGCTTCTTCCGCGACGAGAAACGGCTCAACGAAC
CGGCTACACCGCACTATTCTCGATTGGTATGCGGACGCGGACGGAAGGCGTCACGA
TGTCGCGAAGGCGCGCGGAACCTACTGGGGGTTTATGATATGCAACGGCTGATTGGGA
ATGACGCGAAGATTTTCAACAGCAGCTGCTTTCTTCGCGCAATGCCAAGCGCAATGTT
TTCGAGCGCGCGCTGCTATCGGGTGGAGCGACTCGCTCAACTATGCGCGCTTCTCGGTA
CGGCTTCGCGCAACGCTGCAATGCAATATGCTTTGCAACACTTGGCGCTTCGGTGAC
AAGCGGATTAACCTGTTTATATAGTGGATACCAATGCAACGGGTGCGGCTGCG
TTCGCGTACTGGTTTTTGTAAATCCCACTATATCCGCACTCTCAAGATTACAGGATA
CACGGGTAATTTAAGGAATGCCGGAACGCTCATTCGCGCACTTTCGCTATCCCGCA
CTTTCGCTATTTCGCGCACTTTCGCTATTTCGCGCACTTTCGCTATTTCGCGCACTTTCG
TACATCCGCTATTTCGCAAGAACGGGATCCAGTCGTTTCAGTTTCGGTATTTCGGA
TAAATCTCTGCTGCTTTTATTTCTAGATTCCCACTTTCGTTGGGAATGACGCGGAAGG
TTTTGGTTTTTTTCCGGAATATCTTGAGGCACTGGAATGCTAGATTCGCGCTCGCGCGG
AATGGGCTTTCGCGGAATTCGCAATATGCTTTCGCAATGCTGCAATATGCTGCAAT
CAACTGAACGCTCATTCGCAACTTTTCGCTATTCGCAACTTTTCGCTATTCGCAACT
AGGACGAAGAACCAAAATCAGAAACCTTAAATCCGCTCATTCGCGCGAGATGATATGTT
GCCCGTCAACCAAAATAAAAACAAGTGCATATATCTGATTATATGTTATTTTAT
TTTACGTTTTATTTAGATATGCAATGCAAGGTTACACAAATATATTCGCGTAACCGTT
AATTTTCTGGAATTTTATGATTCAATCGGTGCTCTTCGCGATCGTAAGGCTGGCGGTT
TTMCAATGTAATAGCGAGCTTTCGAGCTTTCGCGATGATGCAACGAGTATACCACT
TTTGGCTTACCGCTTTCGCGAGTATTTATTTATTTTGGAAATGCTTAACAGGTA
GCACAAAGGCGGGGCAATACAGCGTATTTTATGCTGCTTTTCGCTATCGGCTCAT
CTGCGCGGACCTCTTACGCTTTCGCTGATTGTATGATGGCGGATTTAATCCGCGATG
GATCAAACTGTTTTCGCTTTTAAATGTTTTTCTGTCAGTTTCGCGATTAAGACGAT
CGCGCTGCTTTCGCTATGCTCGGATGGTTGAAGATTGGGTATGTTATGTTTCGCT
TGTTTTTATGTTTTCGCTATGCTGCTATTTTACCTGTTCCATCTTTCGCTGATGGTA
TCTATCAAGTCTGATGATGCTTTCGCTATGAGCTTTCGCTGATGATGAGACGTT
TAAATTCGCTTTCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
TGTTTTTGGGATTCGATGCGGATCAAGTATCTGATGCTTTTATGATGCTTTCGCT
ATCAGGTTTGAATTCGCTTTCGCTTTCGCTACGGTTAACTGCTTTTTCGCTGATGTC

Appendix A

-377-

TTGATTTTAAAGGGAATAATAACGTAACAGTATAGTAGGAAGAAGCATATCTGCTGCC
 TTTTCGTAATAGTAGCCTGTTGCTCCATGCCGATATAGACTTTTCTGATCTGTTTCCC
 TTTATCCACAATCTAAACTGTTTAACTCCATCATCATTAATCTTAAATTAATGTAAATGG
 ATACTCCGCTTTGTTTATGCAATCTTGGCTCTATAGTGTCTTTTGAATGTCCAGCCGG
 ATTAATTTCATTGGTATTTTCCCTTATTATACAGCCCTGATACGGCTAGGATGATATTC
 ATTTGAGGATGGATAAAGGCGAGCGGGCTTTCTACGGCTCTGTTTAAATCATCTGGGG
 ATTTGCTGGCTGATCTGCTGCGGAGCCCTGTTGCGGCAACCAAGACCGTAACCGT
 ATATTCAACAGCTTTACGGCTCTTTTCTCTCTGGCGCTTTCTCTACGTTTGGCGATCC
 GACCAACGCCGCCGCGATTCCTTCAACCGGTTCCCGCGCTCTTCCCAATTATCGTACAT
 TAGGTTCTGCTACGGTTTTCGCGCCAATGTGGCACTTGGCGCCTGTCCGAATGTTGCTG
 CGCGCTTTGCTGAACCTCTCGCCTTGCTGTTCTTCTTTGTATGGTTTAAACGGCAAGCC
 GTTTTATACATAGCTCTTGACATCACTCCGTCACCTCTTCAATGCCGCTCCCTTGATG
 CGATAGCAGCGGATCGGTTCTTCGCCCTCTATACAGCCTGATATATATCAAGGTT
 TCTTACCTGCTCTGACCGTCTTAAATGGCTGCTTTTCCGTTTCTTGGATCAATCGCG
 AACAAACATATCTCGGTAAGTGGCGGTATTACCGGCTGCGCTCTTCTGTTTATCCGG
 AAGTACTGCCCTGCTGTTCTGTTGCCGCGATTCCTGTGCTGCGGGTTCTTCTGTTTCTT
 TCCGTAACTGCTCAACATTTTATAGGACAGGCCGCAACACGGGAATCAGCAATACTAT
 TACTGGCAGAGTGTAAACCACTTTGACCGCTTGACCTTATTACGGTATGAATCTCCGC
 TGATCTGCATAAGTCATAAATCTTTTATCCAGTGTATAGATACTGGAGATGCGCTTGA
 TGCCATTTTACGGGATCGCTCGCGCAIATTTTGCATCTAAAGCGTAGCATACCCAT
 CTGTTTGTAAAGGATGTGTGTAACTTTCTGTACAGCGCTTTAGATTTTGATCTAGAG
 CTTAGGACCTTGAGTCAAAACAATATATATGCTGCTGATGTCTGTGGCTGAGTCAAG
 TTGGACATTTTCAGGAGTTTGTAACTTCCGCGGAGCGTCCGCCATACGCTTGTAGCTC
 ATCTACAATGACAAATAGACCGATATTTGCGGCTCTTTATCCATTGTACATATCATG
 CGCGGAAGCTGCTCATCTGTGCTGTTTGGCAGCTTTTTCGCTCGGTTCTATGTAGGT
 GTGCGGATTTTCAAGCCTTTTATGTTGCTGAATACCTTACGGGATGATGCCCTTTTCATC
 AGGCTTAAACATTTTCATCTTCCGCTCATGGCAACCATTTTAAATGTTTCCCTGAACCC
 GGGCGTGCAGTTTATCAACAGATCTCTGCTGATTAATTTTCTGATTTTGGATTTGAGGTT
 TTGTTTTCTATGATTTGCTGATGACAGATTAAGCGAGTCCGCAACAGCGGATGAGTCA
 AACGTTCCACCGCGCTTATATAAAAGAGTGTCAACGCTGTGAGGCGCCCCCTTAT
 GCTATTTGGTTATGCGCTGCTGAAATGGGCTACCAATCTATCCACCCTGAATAGGTTAC
 CGCCTCAAGCTTAATGCAATACAGGCTGCCACGCTCATCAAAAGCGGAATCAA
 TCGCGCAACATTTCAATTTGCTATCCCTTCTTAAAGCGACGTTTGCCTCATTAACA
 AATGTTCTTAACTGAAGAAATTTTGGCGCGCATGCGCGCGCGGCGCGCTGTGGGAGC
 ACCCGCTCGGCTTATTCGCAATCCCGCGGCTTCTGCGATTTTGGACATCTGGTG
 CAAGTGGCTGTGAGTGTGCGACAGATTTCCGAGATTTGCGAGCTGAAGCTGTGGGG
 GCACTATGCTCCCAACCCCTTACTGCTCACTTGGACGCGCGGGGGCATGGGAGCGCG
 CAAGAAGCGCGCGCTTACCACCTGCCCTTTCGCGGAGATGTTGTTTGGCGGGGGCG
 CAAGGGGTATCCAAAGATTTATAAAGACGATAAAGCGCTTTCACAAATCTTTCGGA
 CGTCTCCCGCTGCTTGGTACAGTTACTGAAGCGCGCGGCTGTGCGCTGCTGAGACT
 TCAAGAGATACCTGCGGATACAAAAAGCGCGCAACCGCCCAAGCAAGGCGGAGAAC
 ATGTACCTTACGCGTTGCGGTATGTTGATCTGCTTCAAGCTGAACGCGAATGCGTG
 CTGAAATCAAGCAGATCTGTTGAAGTGAAGGCGGGGACCTGTGGGATCTTGA
 AAGATTCCTGATTTCTGAACATATCATTTGACGCTTTCAGACGGCAGATTAAATCTCT
 GCGGATTTGACCTCGGCGCTGTGCGAAGCAGATGTGCGGGAAGAATTTGCACAAA
 AGGCCGCTATCTTGGCCCTCTTCCGCTTTTGGCGCTGCTGCGGTTTGTGCGTCCGGGA
 ACGCGGGGGGAATCGGCTTGTGCGCGGCTGCTCGTCCGTATCGGATTTGCATCGGGA
 TTTAAATCGGGCTCGGTTGCGGATTTGGGCTGCTGCGCGGCTTCTATTGGGGTTGCGG
 TTGTTTTCGCGGTTTTCGCGGGGCGATCTTGGGCGAGCGCTGTGCGTGTGCTGCTTCC
 GCGCTTCGCGGGCTGCAAGTGGGCGGGGATTAATGAATCCACGCTGCTGTGCTCT
 TCGGAATCCCTGTGATTTGCGACAGATGAACGAGTGTGCTGCTGCTGCTGCTGAGG
 GACCCCATATTCACTTTGTTCCGGTGGGACTCTTCACTTTTGGGAATAACCGGATAA
 CGGTTGCTCTTATGATTTTTCGGGATTTGGCATGACCTTCAAGTAAATCTCTTCC
 AGCTTTTGGCATCCATTTCTTCTTGTATTTGAATGGGAATAGGGAATAACAGCCAGCC
 CCATTTCTGAATCATCACTTTTATGACCAACCAATCCCGCATTTCAATTAATGATG
 CAAGATTTAAACAAAATTTATTCAAATCCAAAGCACTAATTTATTCAGTTCTCTTTA
 TGGCAATTCAAAACGAGCGTGCAGGCTATACATTTGGCTTTCCATCAATCTTTGACT
 TCGGGGATCTGATGATGTTGCGACAGATGAACGAGTGTGCTGCTGCTGCTGCTGAGG
 CCATAGGTTCTAATAAGCTTTTGTGCTCTGACCAAGGCAATTTAGATTTAGTGTAG
 CTTTATACAAATTTGCTGCTTTCGGGGTGTATTTGTAGGCTTGTGCTGTATGCTTCT
 TTGAAGTTTGTATACGCTATGCGCTTAAAGGGCTGTTCCGACATAGGAACCTGCCCT
 GTGCTTAATTTGCGGCTTAAGCGGCGAAGTTGCGGACTCTCAAGACAGCGCGCGCGG
 GAACTGATGCGGTAATTTAAACGGGACTTTTCAAGAGCGCTGCACTGTTGGACG
 TGTCTATTATTTGAAGTTTCAATTTGACCTTGAAGACCTTGACATCATCACGCGAATA
 TCGTAACTCAAGATTTTATGATCAATCTCAATCTCAATCTGAATTTTCAATAGGA
 TACTAACTGCTAGCATAGAAATTAACCGAAGCACTCCCAATTTAGGATTAAGAT
 AAACGTTTAAATTTCAATTCACGACTATAATCACTCTGAATTTAAATTTTATATA
 CGCAACAGACTCATCAGAAAAATAATTTTCAAAATATTATTAAGAACTCTTATTTAA
 AAACATTTGGATTTCTCATGAATATAAATTTATTAACCTTTGAATTAATCCAAAGCTC
 ACTAGCGAAGTATATGCTATTGTTTACCATAACTTGTCTGACGGCTGATATTTATA
 AAGTGCCAACTGGCGCTGGGATAAACGGTTTGTCTATGTTGCTGCTTCAAAGGTTG
 TTTTGAAGCTGATTTTAAACGCTGATTTTAAATTAATCAAGCGCGAGCAAGCCAG
 AAGAAACGGAAGATCAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA
 CTTTAAAAATTAATCAAAGCTGAAGCGCTAAATGACTACGACAGATTAATAACG
 TCGAACCGACATAGAACCTGTTTGAATGCTCAAAATTTGGAACATTTCCGATAGGACA

Appendix A

-378-

ACATTACGGCTTTTCGGTCAAGACCCATTTTGGCGCCACCCTTTCCGGCCGTGATGATTT
 TTCCTCCTCCGGTACAGCTAGGAGGAAAGGACACAAATAATAGTCCGTGTCATGCAATC
 TTGATCAAAACAAATTTATGCGGACAGATAGCCCAATTTATACGCCCTTTTCTTCACT
 CTGTTTATTGACAGATTTAATCATGCTCCAAAGCAATTTGAAGCCTTGGATTGCAAGAA
 TCACGGTAATGGCGGCATACCCACGGCGGAAACATTGACAGAAACCATGATTACAT
 TCGCTACTTGCATACCAATCGCGGAATGATCAAGGTATCTGCCATACAAATGGCCGGTG
 TGAGATACCGGCTGCCAAGCGCTTTTACAGCGTAATTTTAAAGAGTGTGATTCAGTT
 TTTGCTTTTTCCTGCTGCTGACAGCATCTTCCAGTCTTGAATCTTCCGACCGAAGT
 CTTTTCGCAATCTGCTTTTACCGGATAAAATAGAGGATTTGCCGAAAGAAAGAAACAT
 ACAGAACCCCAAGCCGCAATTAATAGTGTGCAAGGTTCAATTTTCATGATATTTTTCCTTG
 TTGCGGGCTTTGTGAAAGGTTGACAGCGCCGCGGAGCCGTCTTCTTTTATTCGGA
 TTTTAAGAAAGCACTGAATATCTGGAATCCTCCGCTATTTCATTTATGCTGAAATTCAA
 CGCATCTTCGTAGCTTTCRAATTTGACCTGCTGCTATTATATATTTTGGATTAACCCACATC
 ACCGAAAGCATGGGTAATTAAGTCAATCGGTTCCAGTCTTGAATCTGAATCAAGCGCTC
 TTCRAATTTCTAATAACACCTTTGGCTTTTCGCGACCTGGAATGAATATAGGAG
 AACCATGCGCCTTACCTGCGAAGTCATTCAACCGTTACCATTAACCTTGCACGGGTATTT
 GAGATTTCTCTAATTTTGGAAATTTCTTACTGTCGCGGAATCTATTTGCTGCGCTGAA
 TCCAACAGCATTTCCCGACTGTCGCGGCAAGGTGTTCACCAACATACGGACACAGTCTC
 GATATTAGAGCCATCAATTTCCGCTTTGAATTTTATGCTCTAAAGAAATTTGCGGATA
 AGTTACAGTTTGAGTTTGATTAAACATTAATTTTCTCTTTTATGTTTATTTTGATT
 CTGAGTGAATCATACATCTCTCGAGATTAAGCTGAATTTGCTTCTCACTTTCCAGTCTG
 TGATGTGATGAAAGCGCTTTTATCGGATCGAATTTATCTGATTCCTTAATTTGATA
 ATTCCGAGTTCTTCCAATTCAACCTCTAATCTACATCCGGTTGTCTGGTGATAAAGCGG
 AATTTCAAAGATTCTCTCAATCCGGGCAACGAATTTTTCAGGTTCTAGCCCTTTGGGA
 TACCCCAATCTGCTTCAGATATCTGCAATTTTCATCACTACAAACCCATATCAAC
 ATGAATTAATCAGTTTTCGCGACCGCGCTTTTGGTATCTCAATTTATGCTGAAAGCTT
 AAATTTAGCACTTTTTCAGGTAATCGAACCTTTCCGGATTGCGCATATTTTAAATTTTC
 TGCAAAATCGGGAAGCGCTGAAAGATGAGACCTTGATTTATGCAAGATTTCCCAAGGT
 ATTTGCAATTTCTGAGCTACCTGATGCTGATTTTTCAGGTTCTGCTGCTCTATGCT
 CTTAGTCTGCTGCTTTCTGATAAAGCAGCACAAAGCAGAATTTTCTTGGCATCA
 TAAAGATCTTGGCGCTCCGCTCTCTTCCGCGCAAGCGGTTCCAACTATTCAGATTTC
 GGCTCATGTTACTGTTATCGAAAAACCGTTATCGTATCCAAAGCTGCTGTTCCGGC
 GTGACTCCCACTAAMAAATCAAGTGCCAAATCTACCGCGGTTATCTCTGCGCTCAAT
 GAATCTTCCAAJAATGCTTAAAGCTCAATTCGCAACCTGGATTGCAATGTTGCAACCT
 ACACCTTTCAATTCGATTAAATACCGATTATTCGCTGACCTCGTATGAGGACTTCGCGTAG
 TCACCTCTTCCGATCCCAAGCTTAAACATCGAATCGTAAATTTATTTGCTCTGATTTG
 CATCTCTCTGCTGCTGATCAACCGCTAATTAATGACAGCGCTGATAAGCTTTGAAATTT
 TATTCGCGATCGGAACATAAGGGCATTCGGAACCTTCAGCAAGGAATCTCTGCGCAT
 GTGAATGACAAACATCTATAAAGACCGCGCTCTGCTGCCCTAGCTTGGCGAATTTCT
 AATAACTTTCCATTTGCCGTTAGATATGAATGGGAAATAATCTGCTCTCACTCATTTTG
 TTCAGTACCTTTAGGGAATTTGTTTATTTGCTCTCCCGCTGTTAGTCAGGGGGGGCTT
 TCAGCGGTTTTCGCTGTCGCGCGGTAAGCGGCTCCACGGTCAACGACGGAAGCGCA
 TCCGTGCAAACTGTAAAGATCAGAGAAGAACCAACCGCTGTGTGTGATAATTAAC
 GGAATTTCCGCGCAACCGAATCTATAATGACAGCGCTGATAAGCTTTGAAATTT
 TCTTGTTCAGCGAGTTTATGCGCTCAACATGCTGAACTGATAGAACATAAAGCGAA
 TAATCTGATTTTAAATATTTCCAAATAGGAACAAGAAATATTACATTTGCTACTGAC
 ATAAAAAGCCCTTTCACTTGGCTGTCAAAGGGGAATGTAAGAAAGATATGCGGCC
 TTTGATAGAGCGCATATAAAGCGGGAATCCAGTCGTTCAAGTTTGGCTGTTTCCGA
 TAAATTCCTGCTGCTTTTCACTTCTAGATTCCCACTTTTCGTGGGAATGACGCGGAAGGG
 TTTTGGTTTTTCCGATAAATCTTGAGGCATTGAAATCCAGATCCCGCTCGCGGG
 ATAGTAATCTGACGACGGAACCTGATGATCTCCGCAAGCTGATGACCGCTGCAACCG
 CTATCCCGCAGAAATGGGAATAGATATCTCAACTTTCAAGATACTTTCTGAATATGCT
 TGTGTTCTAAAGTCTAGATTCCCGCTGCGCGGAATGACGAATCCATCCGCAAGGA
 CCTGCACACGCTCACTTACGAACCTACATCCGCTCATTTCCGCAAGCGGAATCCCA
 GTCCGCTCGGTTTCGGCTGTTTCGGATAATTCGCTGCTGTTTCTATTCTAGATTCCCA
 CTTCTCGGGAATGACGCGGGAAGGTTTTGTTTTTCCGATAAATCTTGAGCATTTG
 AAATCTAGATTGCTGCTGACGCGGAATGACATTCATAAGTTTCCCGAAATTCACAA
 TACCGGAACCTGACGAGTACGCTGAACCTGAACCTGATTTCCGCAAGCTGGGAAT
 TAGAATCTGAGATTTTGAATATCTTTGATATCTGCTGCTTTTCAAGCTGAGATTCT
 CGCTGCGCGGGAATGACGGTGCAGATGCCCGAGCGCTTTATAGCGGATTAACAAAA
 TCAGGAACAGACGAGGAAGCGGAGGAGTACAAATAGTACGGAACGATCACTTGGTG
 CTTGACGACCTTAGAGAACTGCTCTTTGAGCTAAGGCGAGGCAACCGCTACTGCTTT
 TTGTTAACTCCGCTATAACAGCAACCTTGTGCGCTCATTCGCGCAAGCGGGAATCCAG
 TCCGTTCACTTTGCTGCTCACTGCAATTTCTGTTGCTTTTCAATTTCTAGATTCCCACT
 TTTGCGGGAATGACGCGGAAGGTTTTGTTTTTCCGATAAATTTGAGGATATGA
 AATTCGAATTTCCGAGCGGGAATGCTGCTTTTCACTGCTGCTATTTCCGATAA
 ATTCTCGCTGCTTTTCAATTTCTAGATTCCCACTTTCTCGGGAATGACGGCGGAAGGTT
 TGTGTTTTTCCGATAAATCTTGAGGCATGAAATTCAGATTCCCGCTGCGCGGAAT
 GACGGCTGCAGATGCCGAGGCTCTTATAGTCAATTACAAAAATCAGGAACGGCGG
 GAGCGCGACAGCATGATGATGACGAACGATTCACCTTGGTCTTCAGCACCTTAGA
 CATGCTGCTTTTCTTTTCTTCACTGCTATTTGCTTGAACATCTGCCCAACCGAT
 ATATCGGCTGCTGACACATCATGGAATTTCTTTTAACTAGTAAACCGAATCA
 GAGTGGAAATTTGCTGCGCGGCAACCGCTTCTTCTGCTGCTTCTGCTCTCTT
 CTCCTCTCTCTCTCTCTCTCTCTCTCCGCGGCGCAGCGGCAAGTGAAGCGGCA
 GCCCGACCGCGTATATCTGCGAGCGGATTAGCTTATGCGCGCAAGCTATTACCAAG

Appendix A

-379-

ATTATCCGAAAGCAACCGGTACAGACAAAGACAAATTAAGCACAGTAAGCATTATTTCGA
 GAAACATCCGTGGCATTCCATCCACCCCGAGCTGTCACTGGCTACGATTTCCGGCGGCT
 GGAGGATAGCGGCAGATTATTCGGAGTTTCAGAAATAGAGCAACAATAAATTCGTGCA
 ACACAAAAGTGTTGAAAGAAAACGAGGCGAACGAGTAAATCGAAGACGGAATAACAGG
 GAAACGGTAGCTTCCAGCGCTCTTCTCTCTCGGCTATTCGCCAATTACGATTTCAAAC
 TCAACGATAAATTCGATAAATCAAACCTATATTCGTCGGCGCGCGCTGCCATGAGCAACG
 TTAACATCAGGTTCTTCGTCGGAACCAAAACACGATTTATACCACTGCCACCAACGG
 GAGCGCTACAGAGCGAGCACTATCCGACGAGACGAGTACGAACACGCTCCCTATCAG
 AAGCAACAGCATCAGCACTTGGCGCTGGTGTCACTCGTGTGCTGGTTTCGACATCA
 CGCCCAAGCTGACCTTGGACACCGGATACGCTACCCACATCGGGAGCGTTGGAAAACA
 CCCGCTTCAAAACCCACGAAGTCTCATTTGGGCTACGCGTACCACCTTCGTATCCCGATA
 CGGATGCCCTGTAACCTTTCAGACGGCATGAGACCTTTGCCCTGGCTACTGGTACGCTGG
 TCGCTCCGAACTGGCGGACACCCGACATTTCCGCCGAGCGCATCGGGCGTTTCATGA
 ATCGGTTTAAACGATGGAAAATTCGGCTCGAAGCGTTTCAGAGCGGATTTGGCTTT
 GCGATTCTGTTACATCTGGTACAGCGCTTCAAATCGTTATTCGGCTTTGGCGCTATGCA
 CTTCTCTGTGGCGCTGGCGACCATCATCGCCCGATGATTTATGCTTATCCGACACAC
 CGAAAGCCTCCCGCAACAGGGGGCTATTAGCCACATCCCGTAATCCAGACATTCTCGA
 ATCCCTGAGCGCTTGGCGGCACTTCAGCGCATACGCCGACACACCGCGCTCAGCATCT
 GCTCCCATTCGGTTTCGGCTTAGGCATACGCGGTTCCGCCGAAAGCTTACCCGATAA
 CCATCGCGCGATATTGCCCACTTTTCCGGCTTTTCATCGCATGTCGCGGAAATTCGA
 ATTGCGAACCGTTTGTCTCAACGATCGGAAAACGTTGCAATCTTACTCGGCTTGA
 TCAGTAAACAGAAAGGCGCATATTCGCTGTATCGGACATTTGGGTTCGCGCTGGA
 ATATTGTTCAACTCCGCCGATCGGGCGGGGCTCTCAGCTTTTGGAAATCGCGG
 GGTTCTCAATAATTTTAAAGCATCATATCGTTATACTCCGGCTCATGGCTGGGTGTC
 GGACCATATCGCGTCGGAAGGCTTCAGACGGCATATCGGCTACGCGCGGACGGCGG
 AGGCTGCCATATATCCATTTCTTCGATAGTTTGGCTATTGGAATGTCATCAGCG
 CCATATCGCTGAAATAGTGTGCTGCGAATATTGTTTTCGCGCTTTTGTGTTGA
 GGCATTGGAATCTATGCCCGCTGTTCGGCGAAGGCTTTGGAAAACACATAACCATG
 CGATATGGCTTCGCCCGGCGGCGGATTCGACGCGGCGGCTCGAGCTACATCGCT
 TTTGCCGCAACCTCGCGGCTGGGAACGATATGACACGATTTCTCAATCGCTCG
 GGTTTTCAAGTTTCGCGATACCTTTGCGAATTAATCGTCCACATCAAAACGATTTGT
 CGTAAGTGTTCACCGAGCTGGCGGGGTCATTTGTGATTTCGTTGGTTCGCGAGCTCG
 CGCTGAATTTGCTTCGGCTTGGTATAGCTTCTGTAATACGTCGCCCGGCTGGCTGCCGA
 TGGTATCGAGGATTAACACCGGCTCTTATCGTTTGTGAGGACTTCGTGCAACTTAG
 TCAGAGGATATTGTGAGGACCTCGCGCTTGGCGGAGTATTCGGCGAGTTGAGCGAGG
 TAAAGTCTGGTATTCGGCATTTCGCGACAGCGCTTCGACGCGGAGTCTGTTTCAAC
 ACATTAATTCACAGCTGCTGCTGAGAGCTATTCGAGGCTTCGCTGCTGCTGCTGCT
 TCAATTCTCATATTCGCTGCTGCTGAGGTTGAGACATACACGCGAGCGGATCGCGG
 TCGATGTCGCCGAGCTTTCGACTCGCGGGAATTAACAATTTTCATCGCGCGCGCGCA
 CGACGGCTAGTTTGGCGGCTGTAACTGTTCAACCCGAGTTGGCGCGACGCTGTGCT
 CGCCACAGCCAGCACCAAGAAAGGCGCGAGGCTCGCGCGCGGCGGTTTGACAGCGG
 CCATATCAATTCGATATAAGGAATATTGGAACGCTTCCAATCTTTGATTTTCGACAGCG
 CGCGCGGATGAATTAAGACGCAATCAGATGGGTTCGATTATTTATTTGGCGGAAA
 ACGAGGCTATCTGATATTCGCAATTTTCGATCGACGCGGCGGCAAAAGGAAGAGG
 CGGACAGCACAGCGCTCAAAAGCTCTTTATACCAACCGGATTTATTAAGTTCGAGCG
 CGATATACGCGACGCGGGCAATACGCCAACAATACATCCACAGCACATAGCCCGGCG
 TAATCAGGCGCGGCTTTCGGACGCGTAGTTTGAAGACATTATTCACATCGACTTGT
 TGAATAGATATTGAAAATATTCTTGTGTAAGACACCGCGCACTGATAACCAATATCA
 ACGGAATCAATCACTTATGACGAAAGGACGGGCAATGAGTGAAGAAACGAAATTAATTA
 AAAAAACACGACCCACCGGATCTGATAGGGAAGATATCCGCCCGGTCGCTTAAAGAG
 GATAGAGCTGACATCTTTGGCAAAAAGCGTAATTCATATCAACGAGGAATACAGG
 AAGAGAGGATCTGCGGGAAGAGCGAGCTGAGTTCGAGTCTGGTTTATCATCT
 GGAATGTCTGGATAAGGTTTGGAAAAGCATTCGGGATTTGGAATCGGATTAATGA
 AAGATTCTTAATATAAGGACCGGAGCAAGCGAGGCAAGAAACGGCGCTGTGCGGG
 GGGTTCGCCGCCATTCAACAGCTCGCGACAGATAAACATCTGTGAAGCAGATTGGA
 CGGCTCTGAACCGCCCTTCGCAAGAAAACGGGCAAGCATTTATATTTGAAAACCCCA
 CGCGCGCGCGGCGGACAGTTCGGGACAAACAGCATCAGCTCGGATGAAAGAGAG
 GATAGCGCGGCGGACCAATCTTACACCTCTCAACCTGAAAGCGCGCGGAGACGCCAACA
 CGGATGCGGCTGATGAGTCTTCAGACATATTCGAGGATCAACGCTACAGCGCTGGA
 AATCGCGCATAAATCTGCCAAAGCGGACGCGCTTCAAGCGCATCGCATTAATAATGC
 TGGCAGCGCATCGCGGAGGTTTTATAGCCCTTAAAGAGGACAGCGCTGCAATTCCG
 CTTCCAGACAAAACGGCGGTCAAGCTCTCATCCCCGTTTGGAAACAGCATTCATT
 TAGAACCGGCAATCGGACGATACGGTGTATATAAAACCATCGTGGCGCTCATCGCT
 CATACGAAGTTTGGCGCTTCAGCGGATGACCGCTTCAATTTTTTTCACACCGCCCGCG
 CTTGTAGCGAGCGAAACACGAGCCGACATATAAATCGGTAGTTGACGGGCTGTTG
 ACATACGCTCGGCTGATGAGTGGGAGAGGATATAAGGATCGGATATGCTCGGAG
 AAGCTTCGAGCAATCTCAGCGACATCAACCAAGTACTCTCGCGCGCGATGTTTT
 TCTGTGCGCGCTGATAATCAGTCCGTAGTCGGGACACAACTCGCGGACAAATCT
 CGCTGGACATATCGACACAGCGGCGGATGCTTCTGAAAGGACCGGCTTCAAGGTT
 ATTGACGCGGTTGACCGTTTATTGACGGCAAAATGACAAACGCGATCGGTCGAA
 CATCCCACTGTTCCACAGGCGGAGCTGAGATAGTGAACCTGCTCGCGCGCATCGCGCG
 CCACACGATTTCCGATTCGGTCAAAAGGCTCATCTGTGTAAGCGATACGGCTCAGT
 TCGCGTTTACACCGGCTGAGTGGGAAACCGGTGCGAGTTGATGGCTGCATAT
 TAATGGGTTTGCAGAACTCGCGCTTATGATGTCGAGCACTTTCGAGCACTT
 AAGCTGCTCAATCTCTGTCGATGTCAGGATGTCGAAACATTTCCGAGCGGT

Appendix A

-380-

GGCTCATTGCGCATCAGGAAACCGTACCGTTGTAGTGCCAACATTTCTCGCGCGCGG
TTTCCAAACCGCGTTTCGGCCAAATACGCGAGGCGCGCGGAAAAATTTGAATTCGGATAAA
GAGCATGATCGAGCGCTTGATTCTGACAAATACCGCGCCGATTTTAGCTTGCAGCAGG
CTTTGTGCAAGGATGGAAAAATACCTGCTCCGCCCGATTTCATGCGCGCCGGAACAGGGA
AAATAATATCAATATATTGATTACAAACATAAAATCATGACGCGACAAATAGATACA
TTTGTTTGTGCAACAAATTCACGATTTCOCATTACAAACCTCCCTTACACCCCGCTTTT
TCCGTCGCCAAACACAAATAATACACATTTTCATTTCGCGCAAAAGGGTTAATAT
CAGCGCAATTTTAACTGTCGAGCAAAATGCGGCGCGGCGATTTTATTATATCTCA
TAGGAGCAGCATGATATCCAAACATCTCTCGAAAAAACCTTGCCCGCGCTGGGTACG
AACTGGTCGATTTGGACTGACGCGCGCAAGGAACATTGCGGTGTTCTATCGCAAGAAA
GCGGCAATTACGCTGAAGACTGCGCAACCGTCAGCAACCACTTGAGCGCGCTTCTCATGG
TTGAAGCATGCACTACAAAAAATCTGAAAAATTCAGCGCCGCGCATCGACGCCCTTGA
AAAAAGCGCGCGACTTCTGTGGCGTTTGCGBGTGAGATTGCCAAATCAAAACCGCGCTGC
CGATGACGCGTCAGAAAAAATTTATCGTAAAAATGAGAGGCTGCGAAAAAGCATACCGTTA
CGGTATCTTCGAGCGCAAAACGTCATGATGATGCGGCAATGCGCAATGCAAGCGCGCT
TGCGCCCGGAATCAAAATCTTAAACCAACAAATATTGGAGATTGTTCAAAATGATCGCTG
AAATGTTACAGCTGGCAGACACTGCGCAAGCAAAAAACGTTGATGCGGAATCGTCT
TCCAAGCATGGAATTCGCCCTGCTACGCGCGCAAGAAAAAGGCAAGCCGGAACACA
TGGACGTGCGCGTCAAATCAACGCGGACACCGCGGATACCAAACTTCCGCGCTGGC
TGATTGTCGCGCATGAAGACTATACCTATCCGATGTCGAAAAAACCATCGAGAAATCC
AAGAGAAATTTCCGCGCACTACCTCAATCGCGGATACCTAGAGAGAGCTGCGCA
ACGAGGCTTGCAGCGCAAGCGCGCAACCGCAACCAAAATATCTGCAHCGCAATTC
CGATATCGCGCGCGAGCAAGAACTGACGAGCTTTCGCGCTCAAGAGATCATGCT
CGCGCATCGTCAAAAGCGCTCGAAGCGCACGCGCATCTCGGAATGTTGCGCGCAAC
TGGACGCGCTGATTTCCGCGGACAAATGATTCCGCGCAAAACTTCCGACGCGCGACG
GCATCCGCGCTCTCTCTCGCGCTCGAAGAAATGCGCAACCGCGCGCAACCAAGTCA
TTCTGAGCGGTATCTCCGCGGATTTCTCGTCAAACTGTAACGCAATGAATACCTGAAJ
TTGCAACGCGCATGTTGAATCCGCGCTGTCGCGCGCAACCGCGGACACTGCGCAAG
TGGCGCTCAAGCAAGCGACGCGCTGATGATGCGCAAGCGCTGATGCGCGCTGCGC
GTTCGCGCTTACAGCAAGCAAGCAATGTCGCGCGCAAGCAAGCAAGCAAGCAAGCA
GTTCGCGCGCAACCGCGCAATTTCTGATGAGCGCGCTCTCACCGCGCAATGCAAGCGCA
TCGTCTATGAGCAAGCAACACGCGCTGATGATCTGCTGCGCAAGCAAGCTGCGCG
TCGCATCGCGCGCGCGCGCTCAAACTGCGCGCTTCTTCCGACTGACCGCGTGGCAGC
TCAACATCATGATCTCCGCGGAGCGAGCGACGCAATGCGCGCAAGATGCGCGCTCC
CGCGCGCTGTTATGATCATCTTGAACGTGACGAGAAACCGCGCTGTTGTCAGG
AAGGTTTTGCACTTTGGAAGAAAGCGCTATGTTCTGCGCGCAACTGCTTGCCTATG
AAGHTTTGACGATGATGCTGATGATGCTGCGCAAGCGCGCGCGCGCGCTGCGCTG
CATGCTGCGCTGTCGCGCAAGAAATGCGCAAGTGTGCGCAATGATGCGCAATGCTG
AAGCATAGTGGCGATATGCTCGCGACTTTCGCGAAGCAGCATACCAACCGCGCAAG
ACTTTGGCAAGCTTGTCTGGACGACTGATTGAATCAACGCGTGAACGCAAGAAACG
CAAAAAGCGCTATCTGACGCGACGCGCAACCTGGTTTACCGCAAGCAAAATAAGGGGCT
ACAGATGAGTAAACAACCGTGAACAATTTGCGCGGAGCTGAACGCGCGCTGGAAGA
CTGTTGAACAGTTGAAGAAGCGCGGCTGACGCAAAACAGCGCGGACGATTTCCCTGAC
GCTGGACGCAACAGCTTCTGACGCGCTACCTGACCAAGAAACGCGGACAGCAAGCAG
CACCATCAAGCTGCGCGCAACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG
AACCGCAAAACGCGGACGCACTGTAAGATTCTTTCGCGCAAGATTTGGCAGCAGAGT
AAAAGCGCGCAAAACCAAGCGGCACTGTCGCGCGGAGCAGACGCGCAAGACGCGGCG
AAAAGCGCGCGGAGCTGCGCGGACGCGGCAAGCGCGTGCACAGGCAAGACGCGGAGC
GGCAAACTCAAGCGCGCAAAACGAGCAACAAAGCAAACTGCGCGCGCAAAACCGACG
CGAAGCAAAAGCGGAAACCGCACTGTCGCGCGGAAACCAAAACCGCGGAAAGCAAGCA
AGCGGAAAGAGCCAGCGGCAACAAATCGCGCTTGAAGAAACCGCGGCGCAAGAA
ACCGCGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCA
ACCTGCGCGCTGCGCGTGGCGCAACCGCTGCTGAGCGCGGCAAGCAGCGGCAAGCGG
CGAGAGACGACGCGCTGCGCGGCACTTTCGCGGCAACCGGAAAGCGCTTGAAGAGAA
ACAGGAACGCGAGGCAACGCGGAGCGCATGAACACAGGCGCAAGCAGCGCAAAAGC
CGCAGGAAAGCAAAACGCGGAGCAGCGCTGCGCGCAAACTGCGGAAACCGGAGCG
ACGCGCGCGCGGCTGGAATTAACCTGTCAATTCGCGCAAAAGCGGAAAGCAGGACG
CGGCAACCGGATGACGAGCGCTGAGCGCAAGCGCAAGCGGCAAGCGGCAAGCGGCA
ACCGCGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCAAGCGGCA
CAAAACCTCAACTGAGCGCAACCAACGCTTCCAGCAACGCGGCAAGCGGCAAGCGG
TCTATGAAGTTTGGTTCCGAAACCAATACCGTTGCGGATTTGGCGCAAAATGCGGCT
CAAGGCGGTGAAGTGTCAAGCGCTGATGAAGATGGGCTGATGTTTACCATCAACCA
ATTCATCGACCAAGACACCGCGCTGATTGTTGGTGAAGATCTCGGCACATCGGCAAACT
TGGCGACGCGGACCTGAAGCATTTCTGGAAGGCGCGCGGAGAGCATGGAAGCGGCA
AGCATTTCGCGCGTCCGCGCTGTTACCGTGAAGTGGCGCAAGCTGACGACGCAAGCTC
TCTGCTGGATTAATGAGCTGCAAAATGCTGCAAGCGGCAAGCGGCAAGCGGCAAGCGG
GCAATTCGCGCTGACGCTGGAACCTCTGCGGCTGATACCTTCTTGGACAGCTG
GGCGACGGAAGCTTTACCGCTATGCGGCGCAAGCGGCTGCAAGCAACGCAATGCTGAT
TCTGTGGTGGCGCGGACGAGCGGCTGATGCGGCAACCACTGAAGCGATTTGCCCGCG
CAAAAGCTGCGGCTGATGAGTGTGGTGTGCGCTCAACAAATCGATAAAGAGCGGCA
CCGAGAGCGATTCGCGCAAGACTGACCGCACAGGAATTTGCTGTCGAATGGGCGG
CGATGTACGATTTATGAGCTTTCCGCTAAAAAAGCGCTGACATGATGATGCTGTCGA
AGCGCTTCTGCTGAGAGTGAAGTTTGGAACTGACGCGACCTGTGATGCGCGCGGCA
AGGCAATGCTGAGAGGCTTGAAGCAAGCGCGCGCGGCTGCGGCTGCGGCTGCTGCTG
TCAAGCGGACGCTGAAAAAGCGGATATGCTGCTGCGCGGATGGCATTTGGCAAAAT

Appendix A

-381-

CCGCGGATGTTGGATGAAACGGCAATCCATTACGGAAGCGGTCGGTCATCCCGGT
 CGAAATCTCCGGCTTGTCCGACGTACCGGAATGCGGGTGAAGACGGATGGTATGGCGGA
 CGAGAAAAAGCGCGCAAACTGCCCTCTTCCGCCAACGCAAAATACCGGACGTGCGCGT
 TGCCAAACAGCAGCGCGGGAAGCTGGAATAATCTTCAACAATATGGCGAAACCGCAGGC
 CCAATCTTTGTGGTCATCATCAAGGCGACAGCTGAGGGGCTTTACGAGGCTTTGGCGGG
 CAGCTTGAAAAAAGCTGTCACAGACGAGTGAAGATGACGCTGTTGCACAGCGCGGTGG
 CGGCTATACGAGATGATGATCAACGTGCGTACCTGCTTCCGCGGAGTCAATATCGGCT
 TAGCGTGGTGGAGATGCTCTCTGCGCAAACTTGCGCGAAATGAAACAACTGGAATCCG
 CTACTACAACATCATCTACGATGCCATCAACGACGTTGAAGGCGGCGATGAGCGGATGCT
 TTCCCGGGAAGAAGAACAGGTTTACGGGTACGGTGAATCCGTCAGGTCATCTCGCT
 TTCCAAAGTCGCGCAACATTCGAGGCTGTATGGTTACCGACGGCGTGGTCAACCGGATTC
 CCATGTCGCGCTCATCGCAACAAGCTGGTTATCCACACGGCGGAAGTGGCTCGTTGAA
 AGCTATATAAGAGATATATAAGAGTCCGATGGGCTTGAGTGGCGTGTATGTCCTCAA
 AGGCTACACGAATCATGAGAGCGGACCAACTGGAATCTTCTACATCTCGGATCTCGAATGT
 CGCGGCTGTGATTCCTTGCAAAATAAGTGGCTGGAACGCTTCAAGCGCTCAGACGGATACA
 AACGGCTCTCTGATCATACAGAACCCTTTTTGTCGCAATCGGCTTCAGACAGCCCTC
 TTGCTTATCCCGATTTGAATCTGACTTGCCATACAAACAGGCTTCAGACGGCATTTT
 GCCCGCTAAAGCTATCCCAAGTCTCTCGCATATTCCTCGCTTCGCGCGGCTGGTTTC
 CGGGGGTGGCTATTGAGCGACGACCATTTCCAATGACTCGCGGCTTTGTTGAGTTGGG
 CGGGAGCTGCGCGCATCCACCGGAGCTTTGGGAGTGTGACGCTCGATATCCGACGTGGC
 CGCTGTCCGCGCTTTTCGAGAGCTGTGAGCAAACTGAGGGGCGGGCGGCGAGCAGGCT
 CAGGTTTCAAGGCTGTGCGGCTTTGGCGGACGAGTGTTCGGAATGGCGGAT
 GGTATTGGCGAGGATGCCGCCAAJAAAGCGCGGATTGCGGTACCAATCCGAGCGAGCC
 GCGGAGTGTGGCATGTTCCAGCGCCAAAGCGATGAGCGCGCGGTTGCCGCGCCGTGCC
 GGTGCGGATGCCGATTTGTTGAGCAATTCGCTGTCGACAGGGCTTTGGCGGAAGGCTTG
 CGGCTCCAGTCCGCGCGCTCGATTTGCTGTGTAGAAAGGTAGAGGCGAAACAGCGG
 CTGCTGCATCTCGCGTTCGAGTTGGCGGATTTCCGCGTGCATGGTTTCGACGACGCTGGC
 GTGATCGCTGTTTTCGTCACITCTGCTGCTGAGCGCGCGGCGCATTAATAAGAGTCGCG
 GATTCGCGCGGCGGCTGTGCGGCTTTGCGGCGGCTGCTGCGCGGCGGCGGCGGCGGCG
 CGGCTCAAGTGTGCTGCTGTCGCGCAATGGTGGCGAGGTTTCCGACAGCGCGAGTTC
 GCGTTCAAAATCAAAGGCGAGGCTGTGCAACCTGCGAATAAGCTGCAGGTTTCTCCTCGC
 CAGCATGCTTTGTCACGATTTCGGAGCTCTCGCGCGGTAAAGTTGAACCGGGCATAC
 CGGTTTGGCACCATGAAAGGATGGTCAACTGCTCGTATTTTGTGAGGACGGGTTTC
 CGCGCGCTCGATGACGTACATGCCATATGCTTTGCAAGACTTGGCGTAAGCTTTGGC
 TTCTGATTAAGATCATGGTGACAGCGTGGCTGCGGAGAACTTTGCGAGCGCTTCGAT
 GCGCTGAAAGATGTCGCGAGTTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTTC
 AGGTCGCGGCGGCGGAGGTTTTCGCGGCTGTGCTGTCGCGGCGGCGGCGGCGGCGGCGG
 GGGTCTTTGTTTCATGATGTTTGAAGAAATGATTTTCAGAGCGCTTTTTCAGAATG
 GCGGCTTAACAGAACATTTCAAGTGAATTTATCTGCTTTCAACGCGCTTCTCGCGCGC
 CCTGTCAAGGCTCAAGCGCAAGCGCGCGCGCATTTGGCGAGCGGCTTACGCAATGTTTCCA
 GCTTTTCGAAAGGCTGCTGGAAGCCCTGTTCGCGCAAAAGCTGCACCAACCGCGCGC
 CTTGCGCGGCTTTCGAGATGTCGACATCTGCGCGCAAGCGCGGCTTCGCGCAATTT
 GGGCGGCGACGCGGATTAAGCATTTGCGCGGCTTCTGCTCAGCTGCTGCTCAGCGCGCG
 CAACCTGTTCCGATTTGGTGCAACGCGCTTATCCAGCCATTCTCGCGCGACGCTGCCCT
 CGAACCATTCGCGCTCTGCCACTGGTCTCCAGCATGACCGCCATTTCGGCGCATCTG
 TCAAGATGATTTTCGTTGAACGCGCGGACAGGTTTCCGACGCGCATCCGATCGGTGA
 TTTTGTCTCGCGCGCGGATGACCGCTGATTAATAGGCTTTTCAAAATCAATCCGT
 TTTGCTTGTGTTCAAAAGGATTTTACACACTACCAAGCGCGAGGCGCGCGAGGATGCT
 GCTTACGCGGCTGCTGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CTTTACAGCGCGCTTCTGATGACCGCGCGCGCATCGGAGCAGGAAACCGATTTCGACG
 CGAGCCATGCCAACATTTCCACGCGCGCTACCGAGCGGCGATGCTCAACAGCGTGCCTTT
 CCCAGTTGAACGTATATTGCGCGCACAAAGCAGCAACATCCGACGACGATTCGGA
 CGAGCGTGAAGGCCACAGGCTGTGCGAGCTTGGCGCTATTTCGAAGTACCGAAGGTT
 GCGGCCACTGTTCCGATACAGCGCGCAACCGCGCTGATTACAGGCTCTTTCGCGCGGA
 ACCGCGTGGCGGACTGCTGAJAAAGCGGCCCATTTCAACGCGAGGAACACATTTGCGA
 CACTCTGCGCATCAAGATCATGTCGCGCAACGCGCGCGCGCGCGCGCGCGCGCGCGCG
 TCAGGCTCTGTTCTGATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATG
 TCCCGCGCACACCCCAACAGAGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 GCATAGGTTGCTGCTCAATCATCTCGCGCGGACGGATGATTTTCTCGGACTGCGGT
 CCAAGCGCGCGGAAGCTCCGCTGCGCTGTACGGGATGCGCGTGAATAAAGCGGCTT
 CGTCCMAATACGAGCACGCTCAACAGTTTTCGGGATGGATTCAACATAAATGCGGTC
 TGAATAATAAAGACGATTTTAACACAGCGATTTTCAGAATATTCACAGTATAGGCAAA
 AGATAAATCTACACAGAGCAAAAGATGTCGCTCAACTGCTGCTGCTGCTGCTGCTGCTG
 AAGATGTGCGGATACACAGGACGCTCAATACTTACAGCCATTTGAGGTTGCTGCTGCTG
 TTTGCGCGCGCGAGTTTGGCGCTGATCTGCTGAACACATAGGACACGCGGACGCGCT
 ACCGTATCTTCAGGATATGGTTTACGGCATCAGCGCTTCTTCTGCTATTTGAGTTGCT
 CGCTGTACACGGAATTCGACGCGGAATACTGAAAGCATTTTGAJAAAGACGACCACT
 CGATGATTTATGTGCTGATTGCGCGGAAGTACACACGCTTTGCACTGCTTTCTTGAGAA
 ACGGGCGCGGCGCTGATGATTTTCACTGCTTGGCTGCTGCGCGGTCGAGGATCGCAC
 AGACTACACATTCGGACGGAAGAGCAAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TCATGGGTTGCGGCGGATGAAGAAATCCGCGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTG
 GACTGCTTGGCTGCGCGGACGGGATGCTGTACAATGTGCGCATTTACTGTTTGTAA
 ACCATGAJAAATCGCACAGGGGACGGAATCTGGCATCTGTTGCTATTGGCGCGGACGA

Appendix A

-382-

[illegible]

Appendix A

-383-

CAAGGTTCTTTAATATTTTAAAGCGTTGCCGTTGGATTATAATCCCCCAACCGATTTCCT
TAATTTTGGCTAATAACACTTGCCTTGGTAGGAAGTAATTTATGGCGCCTTTGAACGTGC
AGATCAGGTTGGGCAACCTTAGGCACAATTATCGAATTTGAAGGAAATGCACGGAGGCA
AACTGTTGGCGTAGTGAAGCGCCGACGCATACGGACACGGTGGCGGTGAGATGTCTTTCG
CGCTGGAGAGACTTGCAGACGGCTTTGCCGTTGGCGACAATCATGAAGAAATCAGGCGTGC
GGGAGAGCGGCAATTAACCATCCGATTGCTTCCTTTTGGAGAGCGATTATTTAGACGATCGAAT
ACGAAACGGTGAACCACTACCGCTTTTGGCGACGCTGGAAACCAATGCGAGCTTGTAGG
CTTTGCTGATCCGCCATTGGAAAAAACCGTCAAGTCTGGTTGAAAATTTGATCGGGGA
TGCACCGTACCGGTTTTCCTCATGATTACGCTTTCGGCATATGCGGCAATGAAGCAGT
CGGAATATGTGGACAGTATTGCCAATTTCCGCAATTTCTCCGTGTGGGACGACACCCGAJAA
GCGGTATGACGGAAATACAGATGGAGCATTGATTTGGGTACGGAAAGGCTGGAAAGGCG
AAGAAGCGTTGCCAACTCCGCGCTATTTGAATGTTCCGGAACGACGAGGACTGGG
GGCGCGCGCTGTGCGCTTATACGGCATTTCGCCGTGCGAGAGGCGATGACAGGCTGA
ACCCGATGATGCTTCAACCGTATTTTCGAGAGCGGTTGTTGACCGCACTCCG
CTATCGGTATGCGGCAACATTATTATACAGCAAACTACGCGGCTGGCGTGAATTCCT
CGGTTATGCGGACGGTTATACGCGCGCGGCCCAACGAATTCCTCCGTGCTGTGACG
GCAAAATGACCGCGGTATCGCGACGGGTCTCATGGAATATGATGACCATGAGCTGGATG
CTTCGCAAGAAAGTTTGGGACACGAGGTGGAATCTGCGGCGATACGGCTCAACATCAATA
CGGTTGCCGAAGCGCGGGAACCATCTTACAGAAATGATGTGCAATATCAACGCTGCAC
AATTCATTTATGAGTAATCAAGTCAACAGAAATGCCGCTGTAAGGCTTTTCAAGAGS
GCAATTCCTCCATCAACCGCAATGATTTTCATGATTTTTCGCGGGAATTCGCGGAATTCG
CGCGCTCGGTTGACGAATCTTCGACGAACTCTCTTACCGGCAATCAACGCGGTAG
CCCAACAAAGCGCGGAACTCGACCGTGTGCCGACGCGTTTACCGGTTACCGGAATAATG
CGCACGGCAGTGGTTTTCGTTGATCATGCCGATGGCGGCTTCGTCGGCAATGATGCGG
GAAATGTTGTGCGCGGGCGTGTGCCGGGAACGGCAATCATCTCAAGCGACCGAACAA
ACGGCGGTCAATGCTTCGAGTTTGTCCAGCGTCAGCACGCTGCTTCGCGCGCGCAANTC
ATACCTTCGCTTCGGAACGCGGATAAAGCGCGCACTCAACCCCGACCGCTGCGTGA
GCCATCATCGCGCTTTTTCAGGCACTGTTTACGAAATGCCAAAGCTGCTGTGTGCG
GCTACCGCGAGTCACTTCTTCCGATGATGATGATGATGATGATGATGATGATGATGATG
CGCGGGCTCGCGCCACGCAAACTGAGAAATCAACAGCGGATATTCAGCATTTTGAG
GCTTCGCGCGCGATGAGTTGCCGACGCGGTAATTTGAAGACGATTTTCTCACTACT
TCGCGAATCTCGGTCATGCTGCTGATCTGAATTTTCCAAAGCGCGCTTTACGACACCT
GGGCGGATACGCGGACATTGATAACGGCATCGCTTCGCGCGGAACCATGAACGCGCGCC
GCATAAACGGGTTGCTTCCACCGGCTTGAAGAACACGACAATTTAGCGCGCGGA
CTTTCGGCGGATTTTCGCGGCTGCGTTTGAAGGTTTCGCGCGGCACTGACCGCAATC
ATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
TTTATCGCTTCGGAATGAGCGGATTAACACTTCACTCAAGCGGATATTCGATTTTTC
ACCAACGCGGGAACCGCGGATTAAGACACCGGATGCGTTTGGCAGCTTTATCAAA
GTTTGGCGACCGCTGACGTAAAGATCAGCATGGGTGCCGCGCGATTTGGGCAATGCGG
GTAAACGAAATGCGCTGATTCACAACTGATCGCGCTATTGGGACAGACGATTTTGGC
GTAGTGACCAAGCTTTTGGCGACTGTGGTAATTTATTGTAAATTTTGTTCACACACA
TGTATCGCTGATGAGCTGTGCGCAATCAATGCGGATGGTAATTTGGTGGCGGACATCA
AAATTCGGTGGCAACATTTAGCGGCTTTTAAATTTTCGCGGATTTGGCACTGATGATG
ACATTCCTCAACATCAATGCGCGGTGACGTGCTGGAGATTTCTCTGTTTGCATACGGA
TATCAAGCGGAGTTTTTTCCTCTTCGCAACAAATCAACAACTCTTCAGCGGAT
TGCTGCAATTTGAAGTGTCCACGAGATATCATAGTAAAAAATGCTTCATACGCTGT
GGCTGATGTTGAGATATTGATTTGGTTTTCGCGCAAAATTTTGAACATCGTACACGA
TGCGGACGCGGCTTTACCGATGACGCTGATGACTGAATTTTCAACGCTTACTCCTTG
CAGATATCGGTTAAAGTCGGAATATATCCACCGTTGGATTTGAAGAAATATTGTCAAC
AATATATACATCAAAATGCGCTGGAATATTTCAAGACGATCAGATGATGAGGTTG
GATTAATAACGATCTTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
AGCTTCGCTCTTTTGAACCATCTTCATACACTCAAAACCCGCTGCGCTGATG
GTGGCGGATAGACAGTTCCGAGAGTAATGCGCGCTTTCATCCAACTCAGAAATTTGGC
AGGCTCATGCTTGACATAACCATTTCCGCTTGTACTGCGCTGGCATACCATTTGCT
CCATACGCGGTTTGCCTATTTCGTTAACTGATTTGCTTCTTCTGCGCGCTTACG
GTAATAGCGGATACCGGTACCTCACTCAAGCATTTTATAAGGATAACGGCAGATTT
TTACCGTTCGATACAGTTGACCACTCCCGCTCGGCTTACCTTGTGTAAGGCGCCC
CGCATTTTTCGCAACATTAAGCGGATTAAGCGGATTAAGCGGATTAAGCGGATTAAGCG
CACAAGATTTGATTTGCTTGAAGCAACGATTAAGTTTCAAGATTTTCTTCATCGA
CGGATTAATAAAATCTGCGGCTGGCGAATACCGCGCACCACTATATGCTGATATA
AGCGCGGAGACGATCTGCGCGCTGCTTTCGCTTCTGATTAATAAAGCAGATAGGT
CTGCGCGCGCAAGCGCGCGAAGAACCCACAGGACAGTTGAAATACAACTCCAGATAA
TTTTCATGATGATAGCATAAATAAAGCAGGCTGTGTTTATGATCTGTTGATTTCA
ATATTTGCAAGGAAAGACAAATTTTTCGCTTGAAGTAATTAATTTTATGATTTTCA
ATATGAGGACCAAGCAATTAACGATTAATTAAGCACTGCAACCAATTAATTAAT
TATTAACAAATTTGTAAGGATTTCTTCGCAAGCACTCAACCGGACACGATGATGTA
AAATGCGCTGAAACAAATGCTTCAGACGCGATTTCCCTTCAACTCACTCTTCAC
CCAATACTGCTGCGCGCTCAAGAGGAAACAAACCGTGCGCCGCTGCTTTCACAC
AAGTAAAGGCACTCGGATACGCTGCTTCAATATACCTCCTGTTATGCGGATTTCCA
CCAGCAATACACTCTTGGGATTCAGAACTTTTCGCGCATTCAGAAATCTGCTGTGG
CATCCACCGCTCGCGCGCTGCGCAATGCGCAATTCGCTTTCGCTGAATATCTTCAC
GCAATGCAAGCAAGCAATCAATTAAGGAGGATTTGAAACATCAATCAATATAG
TGCTTCAATCTTCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT
AATCTGCACTAATCCCTGCCACTTCCAAAGCATCCAGCTCACAACCGCATCAAA
TTTGGGCACTAGGATAATGATGCGCATCTGATGATGCAAGGCAACGCTTTCGCGGCAAA

-384-

ACCTTAAACAGGATCTTAAACCAACTCATGTTTCTATCAACGAGGACAGAGTCGGCACAAC
 AACTTCAATATAATAAAGACAGGATGATTATAGCGGCTACCATCAAGATAAGTCAAT
 CTCCTTCGCGATCGTGCGTGTCTCAATAGAGCGGTCGATGTTTTCAGACAGCAGCGCT
 CAAATTAACCGCGAGCATCTCTCTTTTCAGCTTCAGAGTTTTCGTCAGATATATGGGGG
 CAGCATATATCCGAGATTAATCAAGATTCAGCAATCAATAGATCTGTTTCATATGAGT
 CAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CATAAATATCCGGATATATGCTGATCAATCTTGCTGCGCTGATTAACATCATATGACCA
 TCTTCGGTATATGATGCTTTTAAATATACAGAAATACAGGACAAATCTTTTCATGAGT
 AAMTAAACCCACCAATCATCCCATACAGCATACAATAATGCCGCGGAACCAATCGCCGCG
 AAGCAAAGACAGCATGCGCGACGATGTGGCAATCTGATGGTTCGGGAAAAACGGGGCT
 TTGTGTGCTGTAAGCTGATGTAACCGAAAGACAGAGAGTCAGAGTGTCTGATGTCTGTAAT
 CACCGGCGAATAGGCGGTAATCGGATTTAGCAGCGCTTCTCACAGCGCGCATATGACATAT
 CAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 ATTTCGGGAAAAAAGGGCTCTGTAATGAGCGGCTATCSGATTCAGCGCGGGAATCTT
 CGCGAAAGATCTGTATCAATAAAGACGGGGATGAATCTGAGATGATCTTGGCAAGGTT
 CAGCAAGCTGCTGCTCAAGGCAAGTAAACGGCGGATTTATCATCATGACAAATATGATGA
 TTATTTCTGCGTACGCAAAATATGAGGCTGTTCTATTCGATAGGAAGGTCTCATCTAATAT
 TTTCAGCAGCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TCTGATTTATGAGGAAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CAGCTCTGAAAAAGGCTTTAAATATGCTATGCCATTTATACAGGACGAGATAAACCCAT
 CACAAATATATACCGAAATATCGCAAGTACGCAAGTACGAGGACGACGATGCTCAGGT
 TTGGGTTACGCTTCAAGCGAAGAAATGATTGGAAGCGGAAGTATCGTGCGGCGAGCTT
 TATGAAGCGGAGTTCCTCCGATATATGATGATTTGGGCGGGGCGGAGATGACGCGCTCT
 AATGCTCGCGGAGCGCATATGAAATCATATGAGTTGGGTCGGGAGCGGAGAACCTTTT
 TCTGATTTATGAGGAAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TCTCATCTGAGCGCGGCTTATCGCGCGCGATGATGATGATGATGATGATGATGATGATGAT
 GATGCTTGAGGAAATACGTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CTTTAAAGGCGGATCAAGCTCGGAGCGGCTAAACCATGATACAGACATATATGATCATAT
 TTATAGCATATCTTCAATCTCAACAAAGAGAGACGCGGCGGCGATGCGCTTTCTTATTA
 CAGGTTCCCTTATTTTATCTATGCTGGCGAGCACACGGTTTGGCTGGGGGTTTGGTGCGG
 CGCGCGCGCGAGGCTGCTGCTTCTTCACTTCTCGGACGACGCGGCGGAGCGATCGCTT
 TCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TCTCGGCTTCTCGCGGGCTATCTCGCGCGCGCTCACTCACTGCTGCGAGCGCATAT
 GATGTTTATCCCGCGCGAGGAGAGCGGACGAGACAGCATATACAGACAGACAGCATAT
 TTCTTCTATGTTTTCCTTATGAGGCTGCAACAAATAAACCGGCTTCTGGACGATAAA
 AAGCATGCTATCTAAATAGTATCTTCAAGGTTTCAAGCGCTTCTCGCGAAACCGACGAT
 GACACGCTAGGATGCGCTCGCGCATACGCGCATTTTTCGGGCAAGCAACCATATCT
 TTCTCGGCAAGCAAAACCGGAAATATCGGGGTTTTCGATAGTGGTTTTCGACGAT
 TCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TCTCGGATATGAGGCTTCTCGCGCAACCATGATATGCGCGCGCATAAAGCTTTTACAA
 ATGCGATGAAAGCTTTAATCAATATATCGTATAGGATGAATCATGTCAGATGTTTATCA
 TCTTGAAGTTTCTCAATATAGGATCAGGCTCAGCAGCATATAGTATAGGTTAGTCTCT
 ACGGTTATACCGGCTTCCACACCGCATCTCAAGCTCTGTTTGGAGGATGCTTTAG
 TGGGTTAAACCGCGAGGAGATCTCATCTTCAGGCGAGTTTCGGGCTTAGATGTTTTCGAT
 GCGCTCTTCTCTTCAAGCTTACTAGTCAGGCTATGAGTATGAGGCTTCTGATGATGATGAT
 CTTACATGCGATGAGGCTTCTCGGTCAGCGCTTCTTAAACCGCTCATCACTGATCATCT
 DDATTTGGGACAGGACATACCTTTGGGACGAGCTACGCGCCAGGATGATGATGAGGCGAT
 CACGAGGTTCCAAATCTCGGTCGCGTGATATGAACCTTTGGGCGGATACGCTCTCTAT
 CCGGATACCTTTCTCTGCTTGAAGCATGCTCTCATCATGAAGAACCGGATCATAT
 GTTCTGCTTCGCGCATCTCGACTTCGGGCTTCGAGCTTAAAGCATGTTTTCGATATGAGT
 GCGGCTTCTCTTCAAGCTCTCCACTTGTGATATGAGTCAATTAAGSTCAAGTACAACTA
 GCGGTCTAGCTTCTCAAGCTCTCCACTTGTGATATGAGTCAATTAAGSTCAAGTACAACTA
 ACCATACGATAAAGTTCTCAGGGGCTTCTCGGCTTAGCGGCGGATGATGATCATCTCACCA
 TCGGCTTCAAGCTTCTGCTGAGTCTTCGAGTGAGGAGCATGCTGGCCATCTTGACCGATCT
 CGCGGCTGGAACATGCGACAGGAAGTTTCGCTATCTTAGACAGCTTATAGTATGAGGCT
 CAGGCGCTACACCATCATACGTCATCTCTGCTTAGAGAGAGCTGCTGTTTAAATAAA
 CAGGCGAGACCACTTATCTTTCGCGCATCTCGGGGCTTAGGAGCATGCTTCTGATGTT
 AAGGGGAGTACCTTCCCGAGTACGCTATCATATGGCAGTGCTCTCTCTAGGTT
 CTCTCATGCGGCTTAGAATCTCATCTCGGCCATCTGCTCGGTTTGGGTAAGGCTTCGAG
 TCTMAATAGAGCTTATGSGCTTTCTTGGAGAGGAGCTGGTATGCGTTGCTTGGTGCTGAT
 GATCATTTGCTGATCTCTGCTGCTTGTGTGTAGAGAGCGGGATTCGCTAGTCTTCACTA
 TCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TCTGATCAAGTACAGATATATTAACCTTTTCCCATCGACTACGATCATCTTCCGCTCGCT
 TATGGGGCGGATCAGCATACGTCAGGATGACGTTTTCGAGGAAGAACTTTGGGTTTGGCT
 GAGGCGGCTTTTCCCGGCTTTTTCGCTCATATGTCAGATATGCGATCTGATGATCTCAT
 CAGCATCATTTACAGATGATCTCATCTGAGCTCAGAGCGCTCTCTCATGCTCGGGTAACT
 ACGGCTATCGAGCTTCTGAGTATGATGATTTAGCGCGGCTTACATCTTCGCGACAGGAA
 GAG
 GAGGCTCGGGGCTTCCCATCTCTTACCATATCTATCTATCTTGGGACCTTAGTCTGCT
 GGTCTGGGTTTGTCTCTTCTGACAGGAGGTTTACGACCGGCTTCTGCTCTCGGAGGAG

Appendix A

-385-

ACCACTTGATGGTATTCTTAGTTTGGCATGGGTGGTAAGTTGCAATAAACCCCTAGCGA
 TAACAGTGTCTTACCCCATCAGTGCTTCTGCTCGAGGCGACTACCTAAATAGTTTTCGGGG
 AGAACCCAGCTATCTCCGAGTTGTTTGTAGCCTTCAACCCATACACAGCTCATCCCGCGA
 TTTTGCAACATGCTGGGGTTCGGCTCCGACTGCTGTACGGCAGCTTCAACCTGGCGA
 TGGATAGATCACTCGGTTTGGGCTCAACCCGAGCACTACGCCATTAAAGACTCGG
 TTTCCCTACGGCTCCCTATTTCGGTAAAGCTCGGTAAATGAGTGGTGAACCAATT
 ATACAAAGATGACAGCTCACACACTGATGGGGGCTCCGACTGTTTGTATGCACTAGGTTT
 CAGGTTCTGTTTCACTCCCGGGGCTCTTTGGCTTCCCTCAGGACTGAGTGT
 ACTATCGGTGATGATGAGTATTAGCTTTGGAGGATGCTCCCCCAATATTACAGACAGA
 TTTCACTGCGCCGCCCTACTTTTCTACGCTTAGTACGCGTGTGAGATTTCGAATACG
 GGACTGTCAACCACTATGGTCAAGCTTCCGAGCTTGTCTCTATCTCGACAGTTATTAC
 GTACAGGCTCTCTCGGCTTGTCTCGCAGCTACTTGGCGAATCTCGGTTGATTTCTTTTC
 TCCGGGTACTTAGATGGTTCAGTTCTCGGGGTTCCGCTTCTCTAAGTCTATGTATTCAACT
 TAGTACTCGACAGATGAGTGGGTTTCCCATTCGCACTCGCGGGATCATTCGTTT
 ATTTCGACGCTCCCGCTGTTTCGACGGTTACAGCTCTCTCTCGCTATCATCGCGA
 TGGCTCACTGATGCACTTATTCACTTGACTCTATCACTTCAGAGACTCTCTGACTT
 TGCTTAACATTCGTTGACTAGAACATCAGACTTGAATTTCTACTTTGATAAAGCTTAC
 TGCTTTGTTGTCTTAATCCTGCCTTTGTGTTTTCAGGATTAAAGTCAATCAATCATCA
 CCCAAATCACTGTGTTTGTCTTTCTTCTGCGAGAGATTTTATCTTTTGAAGAAT
 AAAAATCAAAACAAACGCTTGTCTTGTGTTTGTGATTTCGGCTTTCATATTGTTAAJ
 GATCGCTGGTTCGATATTGCTATCTACTGTGCAAAATCAAAAGAGCTGATTTATATATC
 AGCATTTGTTCTTGGTCAAGTGTGAGCTCGCCCTGAAGGTTCTGTTGATCTTTCG
 TTTGATTTGTAATGCTGCGGCTGAAGGGAATGAAGCGTCAAGCGGATGACCGCTCTTCG
 AAAGCAGTGCTCTACCACTGAGCTATGCCCGCTCTCTTGGTGGGTTCTGGGAGGACTTG
 AACCTCCGACCCCACTGCTATCAAGCTGTGCTCTACAGCAGTGAAGTCAAAACCCGGAT
 TCTCTTCTTAAGCGAATCTTGCTTCACTCAAGCTTCTTCGCGCATTTTTCAGTTTAC
 GATAAGTGTGAATGCTTAAAGCCTCTCTTCTCTCAAAAGGAGGTGATCAGCCGAGG
 TTTCCCTACGGCTACTTGTGACTCTACCCGACTCAAGCAATCGGATACCGTGGTAAAGC
 GACTCTTGTGTTTACTTCACTTCTTGGTATTCGCCCATCTCCATGCTGTTGACGGGAG
 TGTGTGACAAACAGCTGATCTCACTGAGTCTGAGTCACTGAGTCACTGAGT
 TCGACTTCAAGCACTCGAGTTGCAAGTCAATCGGCACTGAGTCCGTTTGTGAGAT
 TGCTCCGCTCTCGGCTTGGCTACGCTCTGTACCGACATTGTATGAGTGTGAAGCC
 TGGTCATAAGGCGCATGAGGACTTGAGCTCATCCCACTTCTCTCGGCTGTGACCGGCG
 AGTCTCATTAGTGGCCAACTGAATGATGGCACTTAATGACAAGGTTGCGCTCGTTGC
 GGGACTTAACCCACATCTACGACACAGGCTGACGACAGCCATGACAGACTGTGTTAC
 GGGTCCGAGGCACTCTTCGCTCTCGGAGGATTCCGATCATGTCAAGACAGGTAAAGT
 TCTTCCGCTGCTCGGCTGCAATATCACTCACTACAGCTCTCGGCGCTCCGCTCAAT
 TCTTTGAGTTTAAATTTGCAACGCTACTCCGAGCGGTCAATTTCAAGCTTTGATCA
 CGCTACCAAGCAATCAGGTTGCCCAACAGCTAATTGACATCGTTTAGGCGTGGCACTAC
 AGGGATCTAATCTGTTTGTCTACCAACGCTTTCGGCGATGAACCTCAGTGTGTGCCAG
 GAGGCTGCCTTCGCCATCGGTATTCCTCCATCTCTACGCTTTCACTGCTACAGCTGS
 AATTCTACCTCCCTCTGACACACTCGAGTCAACCGAGTTCAGAACCGAGTTCGCGGTTGA
 CGCCGGGATTTCACTCTGCTTAAAGTAAACGCTTCGCGCGCTTTACGCCAGTAAAT
 CGATTAAGCTGCTGCAACCTAGCTATTACCGCGGCTCTGCACTGATAGTACGGCGTGT
 TATCTCTCAGGTACGCTCAACCGCTGATATTAGCAACAGCTTTCTTCCCTGACCA
 AAGTCTTTACACCCGAAGGCTCTTTCAGACACCGGCAATGGCTGGAATAGGCTTGG
 CCGATTGTCCAAATTTCCCACTGCTGCTCCGTAAGGATCTGGCGGCTGTCTCAGTCC
 CAGTGTGGCGGATCATCTCTACAGCCGCTACTGATCTGCTCGCTTGTAGGCTTTTACC
 CACCAACTAGCTAATCAGATATCGGCGCTCGAATAGCGCAAGGCCGAAGTCCGCTGS
 CTTTCTCTCTCAAGACGATGCGGCTATTAGCTGATCTTGGATCAGTTATCCCCCACTAC
 TGGTACGTTCCGATATTGTTAATCCGTTCCGCACTCGCACCGAGAGACAGGCTTCT
 TCTGCTGCGCTCGCGCTGATGATGAAGTGAAGTGGCGAGTTCAGTCTGAGTCAAGCA
 GATCAACTCTTACTGTTCAATCTCTAATTTTAACTCTGCTGCTCTCAAGGAACCA
 ACAGGACAATGTCAAAACATTATCTGTCTGCTTTCAACAGAGTGAAGTCAAGGCA
 CTCACACTTATCGGTAACTGTTTGTGTTAAAGAGCGTTGGCAATTATAAGTATTCTCT
 CGCTGTCAAGATATCTCTGATATCCCCAACATCTGTGCTATACTTTTCACTTCTGCTC
 GCCACTCTCTGACAGCGCGAAGCAACGAGTATGCTCGCCACAGGGAATAACCGTCAATGCT
 TTAGCGGGATTTTTTGGGGAAATCGCTATGCGAGTATGGACATATCAACTGACCCGGAATGC
 TGTAAATGCTGCGCGCTGCAACATGCTTATGATGATGAGTGGCTGATCTGTAAGGTTT
 TGTGAAATGCTGCTGTAAGTCTGAGGCACTCAGACGGCATTTGTATCAAGCGTATC
 TAAATGATCCGTACTTGTGTTAAGAAAGCTGCTGTTTCTTCTGTAATGAAATGTG
 CAAAATGGGCAACATATTCTTTTAGGTGAACGGGCGATTTAGTGGCGGTAAAGTCTTG
 CGAGTTGTCGCACTGCTGAANAACAGGGCGATTCTGTTACGGTGGTTATGAGCGCTC
 GGCACCTGAATTTGCTTCTCCGCTGACTTTTCAGGCTTAAGCGGCAATCTGCTCTGAC
 CGACAGCGCGGCGCAACGGTTCAACCGTATGGACATATCAACTGACCCGGAATGC
 GAGTCTTTTCTGATTTGCGGCGAGTATGAATGATGAGTGGTGAATCTGTAAGGCTG
 GCGAGTAACTACTGACCACTCTGCGAGTGGCGAGCAAGGAATGTGCGCTTCTCGCGG
 CGCGATGAATGTGAAATTCGCTCAACCTGCCAACACGGAATATCGCAACCTGGT
 TTCAGCGGCTACTGTCTATATCGCGGCTTGGGCGACAGGCTTCGGGAGAAATGG
 TATGGGAAGATGCGCGGAACCTCGGAATTGCTGAGTCTGCTTCGGAATTATGACACAC
 GAAATTTTAAAGGGCAAAAGCTCTGATTACCGAGTGGCACTTTGAAGCAATTGA
 CCTGTGCGAGGCTACCAAAATATCCAGCGGGAATGGGCGTGGCTTGGCGGGGG
 GTCCGCTGCGCGGCTGCAAGTGAAGCTGATTACGAGCACTTCAACCGCTCGAC
 TTTGAGCTATCTCAGCGCTGAGTGTGCGAAATGATGATGCGAGTGA
 TCGTTAATCGACAAACAGATGCTTTATTCTGTGCGCGCTCTCAGACTATAGGGT

Appendix A

-386-

TAAGAATAGGAGTACTCAAAATTCAAAAAGATAAAAATGCCAAACCGTTATCCATCGA
 ATTGGATGAGAAACCCGATATTTTGGCTCTAATTGCCTCATTACCGAACCCGCCGCTCTG
 CATCGGTTTTCGCCGCTGAACCGGAGATGTAATGACATATGCGGGGAAACCGTATTAA
 GAAAAAGCTACCGATGATGTTGCCATGATGTTTCAATGCAATGGGCCAACCGACCAA
 CCGGATTACATATTATCGGGAGCAGCGGGAGCTGTTCTTCCGAAACAGTAAGATGA
 AGCGGCAATGCGGATTTGTTGAAAGGCTTCCGCTATATTGAGCAATTAAGCAATTAAGACG
 GATTAACCATAAACGGGTTCGGTTTAATCAAAAGGCAACCGTTTACCGTCTTAACG
 TTCTGATGCTTTTATGAGCATGAGCTATATGAGTAATCTAGGATTTTGAATATCTGATCAAT
 GATTCAGATTCTTGACTTTCAATAGAAATTTGAAATCGACAAACCTTCGCTTCCGACT
 GGGATTAGACGGTGTTTTCGACCGACTCAATGCTGCGACCGGAATCGGAATCGCTTGGC
 CCATTAAATGCCAACAGGCCGCTGGCTGCTTCCGATTGGACTTGAAGCCGACAGCGTAGT
 TCTGCCGCTTCATATTTCGCCAGCTGCGACGCTGCTGTCGGGATCGGACTTCAACA
 ACGTCGGCGAGTATCCCTATGCGATAATCAATGCCCTTTTCCTTAACCAACAGCAACGGA
 TGGAAATCGCGGGAACAGGCTGGCAGCACTTCGAAAAGTAATATGCGCGCTTCTCGCC
 CATCGCTTAATAGCACTGAGCTTGACCTGCGCTGCCGAAATGCTTCCCTGCACTCGG
 CAATGTCATGGCGCATTAACAGGCGAGGATATGCCCATCCCTACGTTGTACAGCACTT
 CTTCAACGATGCTGCTGTTGCTGTTAGATCGGCAAGATATTTTCTTGATGCCGCTG
 AAAGCAGGACATCTTTGGGAGCAACCTGGACAGGGCTTTTGTAAAGGCTCTCTCCCA
 AAACGACCGCATGCTGCCGGTTAAGGTTTTAATATATTGGCGTATGGCGCTGCGCGGCC
 TGCTGACACGCGGAAATTCAAACGCGGGATTGGGTTTGGCGGTTTCGGATGTTGATAA
 TTTCAACAGATACAGCGTTTGTGAGCTTCGTACGCAACCGGACTCATGATATTGTTGATA
 GTTCGCAACGCTTTTTCGCCGATATCGGTATGCACGCAATGACCAATATCGCAGGCG
 TGGCCCTTTGGCGAAAGTAGGATTTCCTTTGGCGTAAGAGTAGATTTCTGTTCG
 GAACAAATCGACTTTGACGCTGTCGAGAACTCAATGGCATTTGGCACTTGGCTGCA
 AATCTAAGATATTTTTCAGCCACCGGTTTGTGTGAAGACCGGCTGATGACCGCTTAG
 AATATGATTTATAGCTCAATGTCGGCGATTCCACCTTCGGCAACAGCATCAATTCTCT
 TGTACTGATCTATGACTTCAATCAATCGCAAGCGGTAAAGGCGGCAACAAATCGTATGCAAC
 TTTGATACCGCTGACTTTTCGGAATGGCGATATAGCTTTTGAACGCGCGGGCTTGGGCT
 GATAGAGGGTGTGCAACGCTGACGCTGACGCTGACGCTGGAATGCTTGTGCAATTA
 CGCGGAACCGTATATCATCAATACCTTCGGCAAGCGGAGCTTTCTGCCATCATTTCT
 GATGGATGCGCATACAGGTTTTTTTCCCTGCTTTGATTTGGCTCTATATTTCGCGCTA
 CCAGCCGCTGGCGGAATGCGCGCAAGACTTTGCGGACAAAGCTCCTGCCGGTTCTTCGGCG
 TCTTGTCCATCGCTTTTTTTAAAGTCTCGTAGCGGTTGGAGTACAGGTTTGGAAAGATA
 AATCTGAAGCTCTTGATATGCTGTTATCAACCTATACGGTTGGCACTGTCGTATAGA
 TTTCAAGGGTTTTCCTTCAATCCGCGGCGGCTTGTTCGGCGCATGCAACGAGCGTCC
 GCATTTGTGCAAGCGGCTGCAAGTTTGCAGCAATCACGCGGCTTTGGTCAATG
 CAAATACCTTTGATCAATCTGCGGCAATCTCGCGTATGCTTCAATTTCTGCAATTTCT
 TTTCAAGCTTGCAGACAGCTCCACCACTTCGGAATCGATTTGCGAACAACCGCGCA
 TTTCCCTTTTGTGACGCGCGTATCTCCAATACGCTGTCATCAGCGCTGCACAAAGAC
 CCGTATGTCATATGCGCAAGGGCGAGCTGCGTGCAGACGGCAATCGATGCGTGATGT
 AGGGCTCCCGCTTTTTCGGGTTTGGCCGCTGCTGGCGGGAACGATAGGCGACAGCTT
 TTTCAAGCTCCGCTGTTTCTCGGCTTGAGGTAGGAGCGGATAGGAAGACAGGGGAC
 GCGCTTCGGGCGTACAGGGGTCGTAAGGGCGGAAGGTTGGGGGGCGGGCATTTCAAGAG
 GCTTTCGATATGCTGTTTTTCAATCAACGCTCGGAATGCAAGCGGCGCAAGTGT
 CCGCGCTGCGTTTCGGCAGAAATTTATTTATTCGCGTCAACAGCTCTGTACCGATATGT
 CCGCGCGGATTTCCCTTAAGCGGCTAACGGTTCGGTTGTTATTGCGGAATCGTCCACA
 AGCGGCGTGTTCGCGTCTCAAGCTTGGCGGGCGCGGAGCGGCTACCAATGTCAGGTCA
 AATGGTTGGAAATTTTCCGGTACAGCTTCGGTGGTAATACGTGCAATATTATTGCT
 TTTCTTCAAAATATTTAAATGGGAACCGGGATTTTTCGCCGCTTTCTAGGAATTTTC
 CACCAAACTTCAATTAACCCGATTCGCCGCGCTTTTCAGAGCGGAGCATCTCCACAT
 ATGGCGCAAACTTCCTTATGCTGCGCCACAGTCTGATGCAAGCAACCAATCAACAT
 TACGGCTGCTGCGTTTCTTATGCTTGCCTTCGACAGCGCTCTTGGATATCTCCGACT
 GTCGCTCCCGCTCGTTGAGCGCGCGGCAAGTACGTTGAAAGAGCGGCGGAGGATAAA
 GATGCGCAGGGCTTCGGGCGAGCGCTGCGGAACCTGCGCGCGCTGAACGTGATTTTC
 CAAATACAGCTATAGCTGCGCGCGCCACGCAATCACACCTCCGCGCTGTGCGGTA
 ATAGTTGCCAAATACGTCGGCGTATTCAAAAAGCTTCTCGCGGATAGAGCACTCAAA
 CTCCTTTTGGAAACAAAGTATATGATGACGCGCTTTCGCTGCGCTTACGCGCGGCGG
 GCTGTGTGCGACAGGAAACGCGCAACCGTTATGTTTTCGCAACAGCGCGCAACGAG
 TGTGTTTTCGCGGAGGCGGGAAGCGGGAATGAGGAGGCTGCTTTTGGATTAAG
 GGCATATTTTACCGTATATTTTCCAGCGATATGATCAATGGAACCCAGCTTTC
 CTTATTGCGGATGCCATATTTTCGCGCTATTGTTTGTATGATTGGCAAGCGCAGCG
 TGAAGGCTACAAATATGGGCTTAAAAACATCAAACTTGAACACGCAATGCTGTTTCATCC
 CGAAGCTATGAGTGTGCGCGGCTTTCGCGCAAAATCCGCAAAATCGAAACTGGCGCA
 AAAGGCAATCTTATCCAGCAATCACGCGCGCTTTCAAAGCGGGAATATTCGCGCT
 TTTGTTGATTTATGTTGTTACCGCTATATGTTTGTATGATTGGCAAGCGCAGCG
 TGAAGCGCGGCTTTCGGAATATGAGGCGGCAATGCTGCTTACAGCTCAAGCTGCTTGT
 CCCATCCGCAAAAAGGCAAGCTGCTTTTGAACCGGATCGCAAGCTACGCGCTGGA
 ATACGGGAGAGCTGGGTAAGAAATCCACCGATGCGCTTGAACCTGCTTTCGCGCTGCT
 GCTGCTGATGATTGTTGATGCGCAAGGCGGCGAGGCTTTCGCGGCTGGAATGATCGG
 CAAACTCGCGCGGAATTTGCAAGCGCGCGCACTTTTGAATTTACGACCTTCAAGG
 CGGCAAGAAATCTTCGTCGAAGCGCGCGGCACTTATTTACCTGCTTCAAAAGGAGGCTG
 TATGAAGGGCTGAAACGACCGCTGCGCTGCAACCGGAGGTTTATGATGCTGCT
 AATGACGCGCTTTCGGAATATGAGGCGGCAATGCTGCTTACAGCTCAAGCTGGGGA
 CATATTTTCGCGGCTTCTTCGCGCGCTGTCGCCGTTGCCATTCGACGCGGCAACCGA
 CTTCTGACAGCATTTCCACATCGTTTCAAACTGCTGCGGGAAGCCATCAGCTTGCATTT

-387-

[illegible]

Appendix A

-388-

TGGCGTAATGCTGGTATACAGGTTGGCATCCAGGATGCCCTTTTGGCTCGCGGCTTGCA
 GAGCAGGGGTGTGGGTGGTCTGGCTCGGCTTCAGGTTGGGATTGGGCAGCCAAATTAC
 CGGAACCGGTGGTGTGAATGAAATACACTTGGAGCGATTGGGGACAGGATAGCGGGAAG
 TAATGTGCTAACGCAGCAGCGCAAGCTGATTGAGTTGCCCGCCAAAGCCGCAAAACCGC
 TCGAGCTTTTAAAGTTGGTGTGAGTGGTGTGTTGTGCAAGCAATGACACTCGGCACT
 TCAATTCTCGAGGCGTCATTTTGGTGTGGTGTGAACGGAATACCTGCGGGCTACTGGAACA
 CTGGCTGCCATTGAATTTGGTCAGCAGAGAGCAAGCGATTGGTGTTTTCACGCGGAT
 CTGGATACCTGGTGTGACAGCAGCGCGCTGAGGATTAATGCTGGCGGCTTGA
 GTTTTCAAAATCACGGCGGCTGACGAAATTTTAAACGACAGCGGGGTGCGCCCCCCCC
 CGAGTTGCACAGCGATGCTGCTGCAACGCAAGTAAACGTTGAATCGGGTGTCCATGC
 TGGGTTGTATATTTGCTCCAAATCTTCTGATTATGATTGCGGGTCAGGTGGAATTAAT
 CCATCGGGAAAGAGCCTTTGTTGTTAAACGCGCGCACTTTGTTTCTGATAATCGAAGT
 CGCGCTTCAAGACGCAACCAATTTGAATCAGGCACTCATTCGTAAAGAGGTTGGCAT
 TCGCGGCTGTGTTAGCTGATCGGCTTCGGCGAGAGAGAGCGGTCAGGTATATAGACT
 CTTCAACCGCTTATTATGCTGCTGCTGGCGTTTAAAGCTGGCGGCTGCGGTGGTAT
 CTTTAATTGGTAAGCAATCTTACCCAAAAGCTGTGGATTTGTGTTGGCAGATCAG
 GGATACGGGCGTGGCAACCAAGGATTTCGCGCCACTGCTTCCCTTCCACAGCATAGC
 CTCGGTTTCCCGCACTTTCGGTTTCATGACCGGAGCTTGCGAATACAGCAAGCAGCAT
 CCACGGGCTGTACTACACCGGAACCGAGAGTATTGTCCATTACGGTTACGCGTGC
 TGTAAACGCTTTTACGATCAGCGCGGATTCGCTTCCAGCGGTGGTGTGTTGGCAGATCAG
 GGATACGGGCTGTGATTCACACCGCGGCCAATGACACACTGCGGATTTGAAGAGTCTG
 CCGCTTCCAGATTTCGATGTTTGGCAGGTTGGGGTGATGATCAAGCAAGCGGCTG
 TGAAGTTGGCATAACGGGGTACAGCGAGTTTCTTCAAGATCAGGAGGTTTACACCGT
 CTATGCTCACCGCGACAGGTTGCGCTTCCACGCGCGCAACAGCAAGCGCTTTTGTAGCG
 GCGCGCTGCTGCTCAGCGCACTCGGTTGGGAATAGCGCAACAGTCTTTATTGTCCGTA
 TCATTCTGTGTTGTATACGTTTGAAGTTGACGCGTTCCACAGCGCGAGCGCATTCGCT
 GACCTTTAAACGCGCACTGCTTTTATCTCGCTTAAACGGGTGGTGTGTTTCAGTTGACGCTT
 CATCTGCTGCAAGACCGGATTTCGCAAAATCTGCGACAGCGCGGCGGATAGGGAGCA
 TTGTAAATGGTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 AATTAATGATTTTGTGATATCATTAATATTTAATAAGCAATTAATCAATTAAGCAAG
 CCGCGCGGCTTAATAAAGGTCCTGCAAAACAGCTATCGCGAGAGCTTGTGTTATTGGTT
 CGATTCTGTGTTATTGGTTCGATTATTTTGTAGTCTGTGCGGCACTATCTTCCTCGG
 TGCTTCGGCATCGCTGCCAAGCGAAGGTTTGGCGAACACGACTTGTGAATGCAAA
 GGCTTCGCGCGCGCTTGGATGCGCTTCGCGTTCGGGAGTCAAGTTCAAGCGGT
 CAGATGCTGCAAGAAAGCGCGCGCAAGTGTTCGCGCGCGCTCGGGATGGGGTGGAGGTC
 GCGCGCGCGGTTTTCGGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG
 GCGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 CCGCAGCGGCTTTCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 GGCATCGATTCGCGCGATGATTATTCAGCTCGGGAATGCGTTTGTGTAATTCGCGCATCTT
 ATAGATGTGGTGCAGAGCTTGTGGAAGAGGATGGAATTTCAAAATTTGATGTAGTT
 TTTCTTGTGCAAAACGGTTGGACGACATTAACAGAGTTATCCAGCTGTGCTGAAACGCG
 CGTGATATCGGCTTCAAGCGTTTGGCAATGCAATGCTGATTGTTGGTTTCACTCAT
 ATTTTTCCTTGTGCGTAAAGGATAGGATGCGGTTCGCGCAAAATTCGCACTTTCGCG
 CATATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 GATCTCTAAGGCTGAGACCAAGTGAGTTCGCTTCCTACTATTTGATCTCTGCG
 GCTTCGCGCGCTGTGCTGATTTTTGTATCACTATAAAATTAATAAGGATCATAAA
 CGAAATTTATATACATATTTTGGAAAAATATCAATTCGCGTATGTTTAAAGCAGG
 TATTTTACTATTTTACAGAAATCGGATTTTATCAATGGGTCGCGAGTCGCGGAGCA
 ACGCTCAAAAAATATTTTGGCGGACACCAAGGTTTGTGCTACTTCCGCACTTCGCG
 GTTGTGCACTGATGATGGGTGATGCGCTTTTTCCTTAAATGCGCGCATTAATTT
 GCGACTTTCGCGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 TCGGAGAGCTTTCGCGCGCTTTCGCGGATGATGATGATGATGATGATGATGATGATGATG
 GTACCGCGGTGGAAGCTGGAAGAGCGGCTTCTGTCCCGTTTCGCGACAAACTCTTC
 AGGGTGGGAGGCACTTTTTCGCGCGCGCGCTGCTATGCGCGCGCTTCGCTGATTFTA
 ATGGCGTTTGTCTACGGTATGACGTATATAGGATCGGATACCGGTCGCGCATCCGTC
 CTTTCGCTGCGCAGATGATGCGCTGATGTTTTCAGGATATGTTTGTGCGCGAA
 GTGATGTTGTGCTGACTTTTCGCGCGCGGCTTCTGTTCTGCTGCTGTGCTGATGATG
 TATCGCGCGCTGATGCGAGAGGCGATTCGCGGATGATGATGATGATGATGATGATGATGATG
 GTGCGCTTGAAGCTGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 ATCAAGCTCTGCTGTCGAGAGGTTCTGCTGCGCGCGCTTATCTGATGTTCCG
 CTGTCAGTTATGCTGATTTCGACTTCGGATTCGGTTCGCGAGCATGGGTGATTTTCAA
 ATCGGCGGCTCGAGCGGGATTAATCGGTTTCAGAGCGCATCGGAAGTAAACCTGTTCG
 AGCGCTGCGCTGATTTCGCGGACAGTGGCAATCCCGCTGCGCGCTGTGCGGTGCGGAA
 CTGTACCGCGAGCGCGCAAAAGCTCGAGTATTGCTGCGCGCTTTCGAGCGCGCGGCTT
 ATTTGATATTCCGTCGCAATACCGCTCGGATGATGATGATGATGATGATGATGATGATGATG
 GAGGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 GCGCGGCTTATTTACGCGCGGATTTTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 GTTTGATTGCTGCGCGCGCTTCTGCTTTCGCAAGGGGTGCAAGAAATGTCGCAACCTC
 TACCGCATCACCGAGCGGTCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TTGATGCTGTGCTTCCACACTTATGCGCGCGCGCTGCTGCTGCGGCTGCGGAGTCTAT
 TATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TGGGCAAAACCGGCTTCAGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 CAGCGCTCTCTGCAAGGACGCGCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 TGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 AATCCGACACAGGGGCGCTGTGTTACGCTCTTGTATGACAGCGCGGAGGCTTGGAGT

Appendix A

-389-

CACCAATACGGTCATCAAGATTATGAGCATCGATGTGCGACGGGTACCGGAATCAAAT
GCGCGACGACCAAAAGGCGTGGAGATTAACGCCCAACTCAATGCGGAGCATATCCGGCT
CATCCGCGAGCATACCCAGTTTGGGTGGTCAAGCGCGGTATCGACCAAGCGCGGTAAAC
CGGTTTGGGTACGGTCTTTCGGGTTCGTACATCGCTTTACACCGCGAAAAGCGACGA
GGCAAAACACAGTGTCCAAAGTCAGGACATTCCGCGCGTTACCGCAATCGGGCAAGCGG
CTCGGCTGTGAATTGATTGGTAAAACGACCGCATCTCAACGTCACACGCGCTGTTTT
GTATGAAAAATTTATGGTGGCGCAAGTCGAAAGCGCGGATTTCGACCGCTCGACACCAAG
CGTGCAATTACGATCTTCATTCGACCGCCGCAAGCAACCAACTGATTCATCTCGCGCGG
TTTTTGGTTCGAAAGCGGATCAATATCGAAACCAACAGCGCGATCAACTCAATTC
CGCCCTCTCGCTCGGCTCTGTCGGGCGGATTTCATTGATTTCGCGAAACCAAAA
CAGTAAAAAGCTCAAAGCGAAGACGATTCACGCTTTACGACGACCGCCGAGGATCGCG
CAACCTGCTGACGACCGCTCGCTGATACACCGCGTTTTCAACAACCTGTCGCGCGG
CCTGACCGCTCGGTTGCCCGCTCGAGTACAAAGGCTGAATGTCGGCGGTTTCCGAGCT
TCCTTATTTCGACCGCAACGACAGCGCTGCACCTTTTGAAAAAGCGGTGGATACCGGTACG
CATCCGATTCAGACTTCGCGTTTGGAAATCAATCGCGACGACAAAGCAAGAGCATTCG
GAACACCAATTTTCGCGCGCTTAACCAAGGCTGACCGCACCATTCGCAACCAAC
CCTGCTGACCGGAAGAAATGATTGATTGAACGATCAGCCTTCGCGCATCCTTAGCT
CGACCGCATACGTTTTATCGAGCGGATACCGTTATCGCGACCGAGCGGCGTTTGGAA
CGATTTGCAAGTCAAAITGGCGGATTTGCTGGACAAGTTCGACAAACCTGCTTAGATAA
GACGTTGGCCAAATTGAACGGTTGCTTGGCGAGCTCAAAATCCACACTCAATCTGCCAA
TGCGCGCTTAAGCTCCATCGACAACTGGTCGCAACCGCGACGACCAAAAATTCGGA
CGACTGAACCAAACTGAAAGGTTGCGCAACCTGCAAGCGGTATCGCGCGAATC
CGTTATTCGCGGATTCGAAATACGCTTCGCAAGGTTGCAACCAACTTTAAACAGCT
TCACCGCTGATTATACATTTGAAAGAAAAACCCAAAGCGCTGATTTTACACGACGAG
CAAGACCCCTATCCCGAAAGGAACCGATAATCGCGCTTTCCCGATTGCGCGCGCGCT
TCGCTTGC CGCTCGGCTACTGTGCAAGCAACACATATTTGCTGTTCCGACACGCGG
TACATCCGCTCTGCAACGCAAGCGCGGAACTCGCTCGAAGTCGCTCTGCCGACCG
CTCAACGCGCGGCGATGGCTATCAACGACGACCCATCCGCTCAACACGCAAAAAC
CACGTTCTGGGACGACACTTGGAGGATATGCTCGAAGCGGCTTGAGCATGATTCACG
CGTTTGGACGACGACACTTGTGTTTCTTCCTCGCGACGCGCATCCGAAACCTG
ACGCTGATATCGGTCGATTCAGAGCGAGCTACAGCGGCAAAACCTTACGCGGCTGA
GCCGCTCTACCGACGCTAGCAACGACCTTCCATATCGAAACGACAGCAGGCTGAC
GGCTACGCGCGGATGACCGCGGACTGCAACGGGATGAAACGCGCGCGCAACAGATG
GTGAGTAAACCGTGAACTATTGCGAATTTGCGCGCTCACTTCGCGAAACACCGATAC
CGCAACAAACTATACCAACGACACGCAATACGCTTTCCGATTGAGGACGCAATGAATTG
TTTCAGCGGCTGGTTTGGAAATCAATCAGGAGGATTAACATGAGCGGTGATCTGAG
AAGGCGAGCGGTTTCAGACGACATTTGAAGGATTCGACGCTGATGATGATTCGCGCT
GACGACCGCGCGGACGCGCTGCTGCGCGCGGCGGATTCGCGACGCGCTTGAA
ATCGATCGCGCATTTCAATCGACGCGCAATCCAAAGCTTGAACAGAAATACCGGCTG
TTCAAGAACTGGCTGACACGCAACCATCCGCAAGCAAGCAATGGTTAAACTCTTT
AAAAAATTTCAAAITGTCGCGCGCGGAAATCTCGCGGCAATTTCTGATGATACCGGC
TACCTCAAAGCGCGACGCGAAAGCTGTCGCGTTTACGCGTGAACCTCGAATACCA
CCGAATCGCTGATGCCATCTGAAAAACCAATGAACAGAGAACTCTCTCTCGCGCG
AGCGCGGTTGCTGTTTACCGCTCGGCGCAAAATCGCGCGACCGCGCAAAATTC
CGAAGGACGCGGATTTGCTTGGGCTGCTGACTTACCTTCGCGCTACGCGCAACG
TGGCAATCTCATCCCGCGCACTCGCAAAACTGACGGGTTGGAATATTGCAACGCGG
CGTATCGGCGGATACATCTCGCCAAGCTCTGTCGCGCTCGCGCGCTGTTGCGACGCA
ACCCAAGCTTGTGATTTGCGGATAGCGCGGCAACGATTTCTGCGCAAGTTCCCAAGGA
GCACACCGCGCAATATCGCAAAATCATCGAAACGTCGCAAGGAAAAATCATCCCG
CTGCTCTGCTCGGCGTCCGACATACATCAGCTGGGTGCTGTTTGGCGCATTCGACGATCA
TCGCGTGTATGAGGATTTGTGCGAGGAATACGGGATTCGCTGTTGCGGCGCGCTGGCG
GGAATTTGGCGGATTAATATCTGAAATCGGCAATCGGCAACGCAACGCAAGGTA
TCGGAATTTGCGGATTTGATCAATTTTGAAGAAACAGGGGTTAGATTAACAA
GGTTATCGGCAACCGAATTTGTTATATAATCATGAACGCTGGGACACCAAACTGCT
CGGACGCGATATCCGCTGAACTGCAAGGCTACGCGCATACGCGCGATGAAGTTGCG
CGGATTTGGCGTTTTTGAAGAAAGCGGCTGCGGCTTACAGCGGATGACCGACCTCG
AGCTGCTGTGATGAAGCCCGGACAGGCTGAATCATGGAATATTGGAAGCTGAAGAA
GCATCGACCGGTAGGACCAATACAGGCGTGCACACTGATGCGGCGTTCGCGCTGTTT
GTGCTGATTTGGTCTGCTCAATTTGTTTTCGCGCTGCGGCGCATCCCTTAGCTGCG
TGCTGCTGCTGCGGATTTGCGGCTGTTGGGCGGCTTCCCTTATCGCGCGCTTGG
GGCTGCTTGTCTGACCTGCTGCGGATCTGCGGCTATGTCGCTATTTCGCGCTTTG
TGCTACCTTTCGCGGAATCATCGATGTCAAAAATTTGCTGCTGATGGCGCCTACAAA
CCGGAAGGATGAGAAATGAAACTGCGGACTGTTCAACCGCGAGCAATTTGCGCGCG
CATTTGAGTTTGGCGAGGAGCGCGCTTGTTCGCGCTGTCGCGGAGAAAGTATGGAC
GATTTGTGCGCAACACGCTGCGCGAAAGCATCGTATGCGCTGGAATCTGATTCGCG
GATGCTTGCAGCGGCGGACCGCTGCGGAAATTTGAAGGCAATTCGCTGCAAGAAATG
ATCAACAAATTCGCGGATTTGAGTATACCGCTGACCGCGCTGCGGACGATTCG
CTAGCTATTGGAATAATCGGCTGGTGTATACCGCGCTACAGCGGATCAGCGGGAATC
GGCAGGCTGTTTGAAGCTTTGTTGAATTCGAACAGATGTATGATGATTCAGCGGTT
TCCCTGTGGCGGCGCGCTTTGCTGCGAGGCGGACCGCGCGCGCGAGCGATGGCGA
TGGCGACCGCGTGGCAGGTTAAATCCGAGCGTTTCTTGTGGAAGAGCGCTGTATC
CGCAAACTTTGGAAGTATGAAAAACCGCTGCGAAGTATTTGCGCTTCGAGCTGGTCTG
CGGATTTTGGCAACGCGAGGCGGAATCTTCGCGCGCTGTTTCAATACGCTGGCGA
AAGAGCGGACGCGATTCGCTGCGAGGATTCGCGCGCTGGAAGGCAAGGCAAGGCA
TTGCTGCGCTTTCGCGGACATCATGAGCTTGGTTTGTGTAACCGCTGCGAATTTG

Appendix A

-390-

GTCCGATATTGCGTTGGGCAACACAAACGCTTGGGGTGGCGATGGCGTTCGGCGGGC
 GCGACGGCGCTTATTTCGGGTTTAAAGACGAGTTCAAACGTTCCCGCCGGGCGCATCA
 TCGCGCTATCCAAAGACGATCGGGCAACGCTGCTTGGCATGGCTTTGTCCACCCGTG
 AGCAACACATCCGCCCGGAAAAGCTATCCCAATATTGTACCGCGCAGGCATTGCTGG
 CGAATTTGGCGGGTATGTATGCCGTTTACCACGGCGCTGAAGCGGTGAACGCATTGCCA
 ACCGCATTACCGCGCTGGCTTCTGCCCTTGGCGATCGCTGGTTTCAGACGGCGCTGAATG
 TGGTTCAACAAGTCTTTTTCGATACGTGTACCATGATTTTGGCAGTAAAGAGAAAGCAG
 ACCAGTGTTTGGCGTGCTTTGGCGTGGGTTACACATCGGCGCGCTCAACGATATCTC
 AAGTTCCGGCTGATCGTCCGCAAGAACATCGAGATTGGGTGCAATTGTGTACCGCG
 CGTTTACCGCAGAGATGTTTACATTTCGCAGTATGTCAAAGCGCTGTGTGAACCGCG
 AATTGCTGGCTCAGGACGACATTTCGCAACATCTGTGTTCAACAGTTACACACAGCAAC
 ACCAAATGTTGGCTTATCTGMAAAACATCGAAGACCGGACCTTGGCGATGAACCGAGTA
 TGATTTCAATTGGCGAGCTGTATATGAACATCAACGCGCATGCGGAAATGTTGCCGATTA
 CTTGGCGCGAGTTCACGACATCCATCTTACGCTCCGGAAGCGCAACCGCGCGGTACCC
 GCGAATTTGCTCGCGATATGGAAAACAGCTTGAAGGCATCACCGGCTTGGACGGATTT
 CCGTGCACCAATTCGCGGCAAGAGCGATACAGGATTCGCTGGCATGCGCGCGCT
 ATCAGGAATCCAGGCGGAAGCGCAACGCAACATCTCTGATTCCAAATCAGCCACCG
 GTACCAACCCCGCCACCGCGCGCATGCTGGTTTGAJAGTCTGCTGCTGCACACGACG
 AACACGGCAACGTCAACATTGACGATTTGAAAGCAJAGCGAGCAACACCGGACGCTT
 TGTCTGCCATCATGATTACCTATCGCTCCACCAACGGCGTGTACAGGAAGGCATCCGCG
 ACATCTGGCGGATTATTACGAAACCGGGGACAGGTTTACATGGACGGTGGCAACCTCA
 ACGCCCAATGGCGCATATGCGAGCTTGGGGAAGTGGTGCGGATGTTTGCACATGAAC
 TCGACAAACCTTGGCGTTCGCGGACGCTTACGCGATGAGTGGCTGATGCTGCTGCT
 TCGAAGCGGATTTGGCTGCTTGGCCCGGCAACCTTGAACGACGACCAACGACCGG
 CTGCGCATCAAACCGCGCTGGCTGGCGGACGATGTTGGTCTGCATGCTGCTGCGGATTA
 CTTGGATGTACTCTGACCATGATGGGCAACAGGCAATGGAACAGGCAACGGCTGGGCAT
 TGCTCAACCGCACTAGCTCGCGCAAGCGCTTGGCGAGGATTACGATTTCTCAACCG
 GCAAAAACCGCGCGCTGGCGGACGAATGTATCTGCACTTGGCTCGCTCAAGCGGAAA
 CGCGGATTACGCAACGACATCGGCAACGCGTGTATGACATACGGCTTCCAGCGCGCA
 CCGTCTCTTCCCGCTTGGCGGACGCTGATGACGCGGCGGCGGACGAGCAAG
 CGCAATCTACCGCTGATCGCGGCTTGAACAAATCAAACGAAGCTGTGAAGATCG
 GCGCGCGGATGGCGGAAAGACGACACCCCATGCTGACGCGCGGCAACCGCGCGAG
 ATATAACCGGCACTGGCGGCGATCGTATTCCGCGGAAGCGCGCTTCCCGTTGGCGT
 TCGTCCGCAACCAAGTTTGGCGCTTCTGCAACCGCGTGGACGAGCTGTACGCGGACC
 CGAATCTCTGTGCGAGCTGCCACCGATGGGAAATATGAGAGATGACTGTTGATATCTT
 AAAAAATCGCTCTGAACATTTTTCAGACGGCATTTTCATCAACGCGCAACGAGTTGCAC
 CAAATCAGCTCTCGCATTAATCTTAACTTAAACAAATGATTAACCAAGTATCAATACAT
 AGCTTTTATCTGCTGCGGCTTATGATCTTATCTGATCGGACAGATTTCAAAGATGA
 AAGCTTATTCACACCTTTGATGTCATTTCACACGGAACAACAAATATAGTGAATTAAC
 AAAAAACAGTACAGCGTTGGCTCGCTTAGCTCAAAGAGAACGATTCTGAAGTGCTCA
 AGCAACCAAGTGAATCGGTTCCGTACTATTTGTACTGTCTACGGCTTCTCGCGCTTGTCT
 GATTTTGTGTAATCACTATAAATTCCTATAAAAAAGGAGCAGATACCTGCCCGTTT
 TTATTTAATCGGAATTTTAATCTAAATTTAGAATTTTGACACGGATGGTTTGGCATAT
 AGTCACAGCGCGCTTGGCTTCTGATCTGCTCAACCTGCATTCGCGCTTTTGGCAGGCA
 TCGCTTAAAGCTCTCAAGCGCGCTTTGTGCAAGTTCTTTTGGCTTTTGTATAGCG
 GTGCCCATGCTCTTTTGGCTATGCGGGAATACCGGAATCGAACCGCGCTGGCAACA
 CCTGACAGGTGCTTCCAAGACTTTTTTACCCTCAACCGCGGACCGGAGGCGTGGCGAC
 CCTGTCTCTGCGCTTGGCTTCTGCGGAGCTGCATCTGGCAGGAGCAGAAGCTGTTC
 CTGAAGCGGCTATGTCGCGAGCGCGAGCTCATCAGGATTCGGGAAGAACCGCGCTTT
 TGTTCGCCATGTAAGTAATCGCGCGTTTAACTTCTGATCGGTCAAGCTGCGCGACGCG
 CTGTGAGGCAAGCGCTTAAAGCGCTTACGCGGTTGTGGAACAGGATATCGAAGCGCTT
 GCGGATACGCGGTGCGGCGCGGCTTGTGTCAGTTTGGGCTTTCGCGCATGCTGCGCATGCT
 GTTCCCGCGGCTGATGATACAGATTTGCGCAAAATCTTTCGCGCTTGGCTTTCGCTTC
 CGACGGGATCGCGCTCGCCCATCTCAATTGTCCGACAGCTGGATACGGGTCTGGGTG
 CTGCTTCCGTAGTGCCATCGACATCGCCGACGAGCGCGCTGCCCGCAGCTTAATCAGGA
 AATAAAGCATGCAATAACAAATACGATACCGCTCAACAGGTTAAACAGTCAGAGCTT
 GGGCTTGTGTGCGGAGTGTGTTTCATTGTGTAGCGCTGCCGTCAAGTTAGTTGTGCG
 TGTAAATTAAGTTTGGTGTGTGTTAAACGAGTTAAACAAATTTTGTGATATATACGTA
 TGTACAGGCTTTCCCAATCGCTATCATTAAGATATGAAGAAATTTGACACGCTATCT
 GTATAAACAATATGATGATTAATATCTGATGATGATGATGATGATGATGATGATGATG
 CGCATACGCGCGCTGCGCGCGCAAGATAACCTTTGCCAATTTGCAAGATTAAGTTAAC
 CTTCGCTTTTCGCGACCATAGCTCAGTTGGAAGAGTGTGATTTTTCGAAGCTGGAAGTCA
 ACAGGTTGATCCTGTTGGTGGCGCAATTAAGAAGACCGCTGGAAGATAAATATTT
 TTTCAAGCGCTTTTGAATCTTCAATCTTATTTCAAGACTTCGCGCAATCGCGCGG
 GCACATATGTCGATTTGACGATATTCAGTCCGGGACGACATCTTCCGCGAATCGACG
 AGTTAAACGCAAAATCTGTCGCGAGCTGCGGAGCTTGTTCACCGCTCAATCTGCTGTAT
 CGGACATGCGCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 AAGACATCAAAATTTTTCGCGCATCGACGAGTGGCTGGCGCATATATAAATCTGCG
 TTTTGCACAAAGCGTTAAAGTTTCGGGCTGTTCACTCAGCTGCGGCGGATATACGGCGG
 TCGCGGCGGCGCTGGAATAGATGCGCGGAGCGGTGAATTTGAGCTGCTCGCAACCAAJA
 TCGCGCTTCTTCTTATTCGGGCAACCGCGTTAAGCGCGGACCGCGCTGCGGTAGAGC
 GACAGGTTTGTGAAGGAATTCGTACGCAACAGGCAATTCATTTCCACCGCTTTCG
 CGGACGGCTAGGCATCGCTGCTCAATCGCGCGGATCTTGTGAGGCAATGCTCAATA
 AAGGAAATAGTTGGCGGTTTGAATGATGTCGACATCTGCTGCAATTTTCGGTTCGAC
 ATATCCAGCGCGTGGGTTGTGGCAGCGGATGGAGGATCAGAGCGTGTTCGCGG

Appendix A

-391-

AGGGTGTGAAAAAACGGGTCAATTGTGCGAATTTCACGCGCAGTGGGAGGGTGTGTA
 TATGGGTAACTGCGGACCTCGAAACCTGGCCCTTCMAAATGCGGGATGGTGTGCCAAC
 GTCGGGTCGCTGACGTAGGCGGCGGCTTCGGGAACACAGCGGTGCGACAGTCTCGCCCG
 ACTTTGAGCGCGCCGAGCGGCCAAGGTTTGTACGTACAGTACGCGCCCTTCGCGAAGC
 GCGGGATTGTCTTTGCGCAACAATAAATGCTGCACCGCGCTGCGGTAGTGTCCAAGCT
 TCCATCGGAGGTAGGCGGACGCGCGGCGCGGCGGCGGCGGCGGCGGTTTGGCTCGGCTC
 ACGGATTCACACGGGCGATTTTGGCTGCTGCGTGTGGAATAAATGCGCTATGCTCAAAATG
 ACTTTTGGGGGCGGAGCTGTTTGAAGGTTTGCACAGTTTGCACAAACAAATCGGGTGGCA
 GGATAGTATTCGATGTGCTGCTACATATGCTCTTACTCTTGCTTTTCAAAAGATTTCCT
 TTTTCAACAATACACCACTTTTCGATATGGTGCCTAACGGGAATTGCTGCACAGGGCGG
 CACGTTGCGACCGATGGGTTTCCGCCAAGGTGCTCAAAATGGCGCGAAGGTTTCGGGAT
 TGCAGGAAATGTAGATGATGTTGCTCAAACTGCACACAGCTTCAAAATGTTCTCATCGA
 TACCGGCACGCGCGGATCGACGAAATAGTGGAAATGGGTATCCGTCAAAAGCAATAC
 CGCATCTTAAAGGCGTTTAACTGACGTTTTCGGTATAGGCTTCGCTAAATCTTCAG
 CAGACGACGGCGGATTTGATGTTGCGGATCGGTTGGCTTGATATTCCTATGCGCGG
 CGCTGACGGAGGTTTGGAGATTTCGTTGCCAAACACTGTGCGAAATATCGGACAGCG
 CGAGGTTGAAATTCGGCTTTCCGCAATACAGTTCGACAGGTGCTGCCAAGCTTCGCG
 CCGTGCAGCGCCCATTCAGGATTTTCTGACACACGGCGGCTTCGTTGGGTAAAC
 TGCTTCAATTTGCGGATACGGAATCCGGTTGCGGACCTTCAAAATGTTTCGTTACAT
 AGTCTGTTTAAAGTACTTTTCTGCTCCCTGCTCGCGCCAAATACGCGAAATATCCAACT
 GTTGGTGTAAAGCTTCGGCGCGTGCATCTCAGCTCAGCATCAAGCGCTTTTGGTAAATCA
 TGGTAAACGAGATTTCGCCCTGAGCGTGGGCAAAATTCGCGGCTATACGCGCTTTT
 TGACTCGGGGATTCGCGCGCGCGGCGGCTCAGCTCGGCTAGAGCGGTTGACAGCT
 CGGAAGCTGCTTCAAAACGGTGCAGCTATCATGCTTGCGCGCTGGCTTCTGCTTCGCTT
 TTTCAAACTGGCATAAACATTTCCCGCCGCTTCGTGCGCAATACGGAACTCGGCAGCA
 TACGGTAACTTTGTGCGCAGATTGCTACACTTCCCACTACGGAACATCCAACTCGCA
 AAAAGGCTTTTAAAGTAGTCTTTTATCTTGAAGCTGCTGCGCTAGTCTATCATATCGC
 TATCTGGAATAATCAGACGGATTTTAAAGCGATTTCGCTCGCGACGCAAACTTTTG
 ACTGCGCGCTTACGCGGAGCTGCTTTTGCGTAAATCGCATCTTCTGCTACACT
 ATACCGATAAAGGAAATAATCAGGCAACCAACTTTGCGCAACTTTCACGCTTAC
 ACTTCGCGCAAGCCACGGCGGGTTCGGGCTGTATCATCGACGCGTCCGCGCGGCT
 TTGGAAATTAAGCGAAGCGGATATCGAATTTGACCTCGACCGACGCAACCGGCGACGCG
 CGCCACGTTTACCACACGGCGGAGCGGACGCAAGTCAAACTCTCTCGGCGATTTCGAA
 GGCAAACACCGCGCACGCCCATTCGCGCTCTTAATCCCAATACCGCACGCGCGCAAAA
 GACTACGGCAACTACGACACGACTTCGCGCCGCGGCGAGCGGCTATGCTATTTGGCAC
 AAATACGCGACGCGGCTTCCGCGGGCGGCGAGGAGCTTCGCGCGTGAACACGCGCGC
 CGGCTTCGCGGAGCTTCCCAAAATGTTGAGAAATAATTCGCAAAATTTGCGCAACTAT
 ACOCGCTACGTTACCAAGTCCGCGGAAAGAATAACCGGTTGAAGGCTCGCAACACT
 TCCCAAAATCCTTTTTTCCGCGCAACATAGCCAAATTCGCGAGCTCGAAACCTATATG
 GACAGCGTGGCAAACTCCTTGGATTTCGTCGGCGGCGAAGCTGCATATCGAAGCAGCAAT
 GTCCCTGTCGCTTGGCGCAACTGTTTTTGACCGCTTCGATGCCGAATCGCTTACGCG
 ATGATGGGCATCAGCGCTCAAGGCGTGGAAATCGCGCAGGTTTGAACGCGTAACG
 CAACGGGGCGACGACACGGCGAGCTGACCGCGCAGGCTTCCTGTGCCACGACTCA
 GCGGCTCTCTCGCGCATCAGCGCGAGGAGTCCGCTCAATCGCGCGAAATGCGGAC
 CCGACAGCTTCCATGCGCACCGCGCGCGCATATCGACATCAAGCGCAACCGCATGAA
 CTGCGCACGACGCGCAGCGACGACCGCTTGGCTGGACTGCGCTCGCGCGCATCGCGAA
 GCGATGCTCGGCTTAGTCTCATGACACGCGCTGCGCATCGCGCGCAAAATGCGGAC
 GTTCAGGTTAATACGCCGACATTACCTTTCAACAAATAAAATTTAGCCAAACACAC
 GACTTTATAATAGAATTCGAGCATTTGCGCTGACGCTTGACGACGGGTTTGTTAGAG
 GAATCAACCGAATGACACAGAAACCGCTTTGGGCGGGGCTATTAATTCGCGCTCA
 AACTATGAGCAAAAGAAACGACGAAATGATCGGCGGACCATCTTACGCGAAATGCGA
 TGATATCAAACTGTCAACGCTGCGCGCTCGGCTTCTTACGAGTTTGTGCCCTTT
 GCGCAATACGATGCGCGCATGATTGACGCGCTCTCGCAACCAATGCGCGCTCGCG
 CTATCTGAAGCTCTTGGCGCGGAGGCAAAAGTTTGCATTTGAACACCGGTTTCAAGG
 CGAAGTTACCCCGAAGACAGGCGATCGCGCAAAACATCCTTTTTCGCGAGGCTTT
 GCAACAGCAGTCCGCCCAAGCTGCGCGCAAGGCTGCTCTGTTGAAGCGAAGCAGCGGA
 ATCTTCGCGACGACATAAATCCCGCAACGAAATCGGCTCTGAAACACGATTTTGGTTTCA
 GAGTAACTTTTTCGATGCGCGCATCAGGTTCAAAATTCAAATTCGCGCTACGCTCGCT
 TCGGCTTCTCATCTCAACGCTGCGCGCTCGGCTTCTTACGAGTTTGTGCGGAG
 ATGTCGCGGCTCTGCTCATCTGACACTTCTGGGAATTGTACTTGCACACAGCGCGGCTG
 TCGGGGTGATGTAGTATCTTTGAGCTGCTGGGTTTCACTCGCGCAAGCTTTGAA
 CGGCTGATGGAAATAGCGGTTTTCATACGCCCTTTTTCGACGCGCTCCAAATGCTG
 TCGAGTCTGTTTGGTGGAGGCTAGAAATTTGCGGCGAGGTTGCTTCTTACTTCTGTGCG
 TTGACTCGACGCGGACAGTGGCGGCTGGGCGACGTAGATGTGCTCTCGGCAACAGT
 TGTGCGAAGTGCAGTGAACAGGCTCAGCAGCAAAATGGAATGCGAGCGCTGCAAG
 TCGCATCGACGATGCGAGTATTTGCTGTACGCGGAGGCTTGAATGCGGAGGCTG
 TTAATACCTGCGGATCGACGCGCTGCGCAGGAAATGCTGTGATTTGCGGCTGCGG
 AAGAGTTGTGCGGGTGGACTCAAGCTGTTGAGCACTTTGCGCGCGAGGGCGAGATG
 GCTTGGGTGGCTTTTGTGCGGGCGAGTTTGGCTGAGCGCGCGGGAATCGCTTCAGAG
 AGGAAGACTTCGTTTTCGCGGATGCTTCGCTTTCGAGTGGTCACTTACCGGGCAGG
 ACGGCGACGCGCGCTGCTTTTCTTTTCAACTTTTAAACGACGATCCGCGCGCTGT
 GCTTGTGCGAGTGGAGGTTGCGGCTTTTTCGCGAAGTCAAGCTTTTGGTTCAGCAGC
 AATTCGAAGGCTGCGGATGCGGAGGAGGTTTTCGCGGAGGAGTTCGAGTTCGAGT
 TTGCTTTGCTTTGACTTGAAGCTCGGCTCGAGGCGCGGCGAGAGCAAGCGGCG
 GTTTTTCGCAACAGCTGCTCGCTTTCGACTTTAACGCGCGCGGCGAGAGGTTGTGAGA

Appendix A

-392-

TTGATGAAGTTGTTGACTCGGTTGAACACGGCTTGTTTCAAGCGTCTTCGTGCGTGCGG
 CCCAGCGGGTGGGATGAGGTTGACGTAGCTTTCGTTGGCGCAGCAGGCTTCTTCCAGC
 CAAGTCAGGCGAARACGCCGCTCTTCGCGGATGCTGAATCGCGGTTGTTGTTGCTGTGA
 ATGTAGTTTTCGCAAGGAAACAGCGGTACGGCTTCTCGCGCTCGGCAATCAGGTGCGGT
 AGATAGCTTTTTCAGGCGCTGGGGTAAATGCCAGGTTTGGGTGTGCGCTTCGCTTTCGCT
 TTGACCGGACGGGTGAGGGAACCGCGACACCGCGGACGACGAGCGGCTTTGGCAGCGAGC
 AGCGGTCGAGTCTGAGATCGCTTAATTCGGGCTTCAAAATATTTCCGCTCGCGGAG
 ACGCGCACTTCTGACCGCTGCTTTCGCGGCGATTTGCCGCGCATTTGCCCACTTGGCAGCGT
 ACCACGTCGCGCGCGCAACACGATCGGGTGGATTTTGGCTTCGCGGTTTGACGCTTACT
 TCAAGCGGGGTGGAAAGSGCGTTGGTGAACGATACGCCACGCGGTGACGCGCGCTGA
 AAGGCATACGCGCTGCTCCGCTCTTTTTCGTGAACCTTGGCGCTGCGTGCAGACGGGTG
 AATACGAGTTGCACTACGGATACGCTTCTTCGGGATCGAGCGCGACGGGAATCGCGCG
 CCAATGTCGTCAGCAAGGACGACCGTCTTCATGAATTTGCAACGCTGATTTGACGTGCGG
 AAACCGGCCAAAGCTTTATCGGACGGGTGTCGATGACTCTTTGGCAGATATGGGTGCGG
 CTGTGCGTGGGCTACATACGAGAGCTTTTTCACGCGCTTCAACGCTTTTGAAGAGC
 GTGATCTGGATTCGCTGATTTGGTGTGTTTATGCCATGGGAATATCTGAAGTAAAGAA
 AAACAACGCTTTCAGACGGCTGAAAGCGTTTGGTTCGCTGTTTATGCGGTTTTCGGAA
 GATTGGCGGCGCAAGATCTTCTATACTTCCATACCGCGCAGGAAGCGGGAAGAGAGT
 TCTTTCAACGCGCCCAATAAAGCTCGCGTTTGAATCAATCACTTCGTCAACGGGTGCC
 CAATATTGATGCCAACGCCAGCGCTCAATTCGGGGTGGGGGTGGCGCGAGGTTGCACA
 TCGCAATCTCGCGCGGTGAGGCGACGAGAGATACCAATCTTGCCTGTGCGGATGAAGAG
 CGCGCAATTCGCGGTACCCAGTGTTCGCGACATCAACGACGACGAGTCGCGCTGCGG
 CGCGCGATTAATTTGACGTGTTGCGGCGAAAGCGCGACTCTTCGTGCAACTGCGCGTAC
 ATGGCGGTTTGGGGCTTTTCGCGCGCTTGATGCGCGCTTTCGCGAACTTCCGAAGAATG
 TCGCGCACGCGCTTACCCCAAAAGACTTCGTTGCGGTTGTTGATTAGATGATACCGACA
 TTGGGGGATAGGCTTCCCTGTCCAAACGGGTGCGCGCTCCGTTAAATCAATCTTGGG
 AATTTCCCACAATCAGCGGGTTTGAACAATCAGACGGCATGGCGGTACGCGTGGCGAA
 ACACGGGGGATTTGGGAAATACTTTAAATTTGGTTTMCATTAATGATTTCAAAATAT
 TCGGAATCAGACATCAATGATTTGGTTCGCGACACGCGCGCTTTCGCGCTGCGG
 AACGCTTTCGACGCGCGGTTATACCTTGAATACGCGACTTTTGACCACTGCAAGAAC
 GACGCAAGTCGCTCAGGTGAAGAACGGAAGATTCAGCGCTTCGCGCAACGACTTTCCA
 ARCAATCGCGCACTGAAGAGTTCGGGCAACACGAAGAAGCGCGCGCGCATGAATC
 AGGTTGCCCAATCAAAACCGATTGGAAACAGGCTGCGCGGATTGGATGTCGCTTCAAA
 AAGAAATTGGACGATGTTTGTGAGCATCACTAAGCTCGCGCACGGAAGCGTACCTGCGG
 GTAAAGAGCAAAACGAAACGCTGAGGCTCGCAAGCTGCGCACCGCGCGCGGATTTGACT
 TTGAAATCAGACACTTGGATTTGGTTCGCGACCTTGGTTGATTTTGAGCGCGTG
 CAACACTCTCGCGACGAGATTACCTGTGTGCGCGGGAACAAATGCGCGCTTTCGACGCG
 CTTTGGCACTGATCTGATGATGACGACACGCTGCAACGCGGTACACCGAGCAATACA
 CGCTTATATGTTGACGATACGACGCTGCAAGGTACGGGCAACTACCAAAATTTGCGG
 AAGATCTGTTGACGTTTACCGTGGCGGCGCAAGAACCAAAACACCAATACCTGATT
 CGACAGCGAAGTTACCTGACCAATACGCTTGCAGCAGCATTAATCCGTCGGAACAAC
 TGCCTGTGAAGCTGACCGCGCTTTCGCGCTTTCGCGGAGGCGGGTTGTACGGGA
 AAGCACGCGCGGTCTGATTCGCGACACCGATTGCAAGAGTGAAGATGGTTCAATTC
 TTCAATCCGAJAATCAACGAACGCTGGAJAATGTCGCGCTTTCGCGAAGACTTC
 TGAAGCTTTGAACTGCGCTACCGCGTATTACCGTGTGACCGCGCATGGCGTTTCG
 GCGCGGCAAAACGATGACTTGAAGTTTGGGTGCGCGCGCAAAATACCTACCGCGAA
 TCTCAAGCTGCTCCAACTGCGAAGATTTCGAAGCGCGCGCTGAAGCGCGGTTTCAAAG
 ACGAAACGCGCAAAACCGCTTGATACACTTTGAACGCTCGCGCTTGGCTGTGCGGA
 GAACGCTGGTGGCGGTTTGAAGAACCATCAAAACCGCGAGCGAGCATCAACATCCCTG
 CGCACTGCAACGATATATGGCGGTTTCGCAAGTGGAGATCAAAATAGTTTTCAGCG
 TCGCTGACGCTGATGATCTGAAACCTGTTCGAGCGGATCTTCTTAACTTTTGA
 AACAGCTGACCGCTCGGCAACACGCAATTCGCGCAATCGCGCTGCTGCAACCTCGC
 GGATTTGGACAGGTAACCTCCGAJAATTAACCAACGCTCTTCGCTCAAAATGGCT
 GATGCGCGTGAACGACATATTATGAACAGACGACGCGCGGACGCTGTGCGGTAA
 TCACATCGTTGGATTTGCTTCAAAACAGCTCGCGCTGCTTCTGTACACATCCATGC
 CCAATGCGCGGATTTTCGCGGTTTCAACGCTCAATCGCGCGCACTGTCAATCAGCG
 CGCGCGCGTGGTGTGATATCATCAGCGCTTTCATTTTGTGAGCGCGCTTTCGT
 TCACATATAGTGGTTTCGCGGTGGCGGCAAGTGGCGGTGATGATGATTCGCGCGG
 CATACGAGCTGCTTTCGCGCAATTTTCGCGCGGATTTTCGCTTTCGCGGTGCGAA
 ACGGATCGTAGCCAGCAGGTTTCATCGGAACCTTTAAATTCGCGATGTTGCAATAC
 CGATTTTCGCGGTGCGGATAACGCCGCGCTTTTGGCTCATATTTGAACCGGTGACG
 CTTCCAGCAAAATTCGATCGCGGTGACGCTGATGAGCTTTGTGATACGCGGTTTCA
 ACGTCAGCATGACCCGACCGGATTTGTCGAAACCGATTCGGCGAATAGCAGCGCACCG
 GCACGACTTTCAAGCCCACTCTTCAGCGCGCTTTAAATCCACATATTGAAGCGCGGAC
 AACGACCGCCACAGTTTTCAGACCAATTTGCGGCAATTTTTCACACGCGGCGAGCTG
 CGTGTCTTTCAGAAATACAGACGCTTCGCGCGCTTTCGCTTTCGCTTTCGCGGTG
 CATCGACATAAATCAAAACCTCAGCTCGAAGCGCAATGCGCGTTGCGCGCGTAA
 AATGTCGCGGTATAGCTTTTGTACCGTAAATGCGCAATTCATCAATATGTCAGTT
 GTGCTCATGCTTGAAGAACGGCATTAATCACTGAATTCAAACAAATCAGTAGAATATGG
 TGGATTAAATGATTGATCGACGCGCATTTCCATTTCAAAACAAJAATCAATCGCGCC
 ATTGCGCGCAGAGCTCGGCGCTGATGCTCGGCAACTCAGGCGATTGGTATTTCCTCAAG
 TCGCGGTCGACCAAACTGACGCTGTCGAGGTAAGGTGATGCGGTGGTGGGTATAGC
 CGCGCTGGGATGCAATACAGAGCTGCGCTGCGCGCTGCGGATGCGGATGCGGATGCG
 GATTGCGCTCGCGCGCTTCTTTGGCTGGCGTTGCGCTTTTTCGCGCTGCTCAGCGCG
 GCGCGGAGACTTTTCATGCTGCGCTTGTGCGATGTTGGCTGCGCGCTGCTTGGCAAT

-393-

[illegible]

Appendix A

-394-

TTGGGTCGTTGCGGATGCTGACGACCTGTGGCGCCAGTTCGTGAACAACCTTGGGGGGG
 ACACCGGTACCCCGGCGGCTTGGCGGATTCGACAACCACTTCAAAACCCGAGAGTGGGAA
 TGGCTGGGAAGGTGGATTTCGAJAATTCGATATAGCGGTCTCGCGACCTGCTGATCGG
 CGTGGCGACGAGACGGGGGACGGTTGGGTTTTCATTTCGCCGTCGATTTGGCTTGG
 ATTTCCAACTTGCAGCTTCATGGAAAGTTTCACGGCCGCTTCGGCGAAGATTTGATCGG
 TTGTCGGAATAGGCGTTTGGCGACGCGGAAATCATCAGCCGCGGACAGGCGCAACCGG
 CGGTGCAATATGCGCAAGCTGCGGCGGCGGCGGCGGCTGCGTACCAATTCAGACCG
 CGCGCGCTTAAACCGCGCCACCAAGCGCGCTTCGACGATATAGCGGAATTCGGGTGTCT
 TTGCGGATGAGGACGGTTCGTTTCTGGTCTGGTCTGCTGCTGCACAAACCTTGCCTCGCG
 GCATAGCCGAGTTTCAATACGAATCGGCGTAATCGGAAATTTGCCCACTTTCGCCGCG
 ACGCGCTCGGTGCCAAATATTTTTTGGCATGTGTGCTCGGAGAAATGTGAACCGTTGT
 CGGAGATTATACAGTCAGTTTGTGCTTGTCTGCTGCAACGTTGATGCGCTCTGAAACCG
 CCGCTGCTTTTCAGACGGCATGAAGTATGTGAACCGCTGTTTTCAGAGTTGATGCGCAAC
 GCTTCCCAACACTTCAACGCATCGCTGTGCGCTTGCATCATGACCGCGGCAATTTTCG
 GCGCGCGCTTACGGAACGCGAGCTGCGCGACGTTGCGCTGTATGCGGTCTGCGCGCA
 TTTGCTCGCGCTCGACTCGCTATCTGCTCTTTCGCGGATACGCGGATGAGCAGCGGA
 AANCTGTTTTCGCCCATCAATTCGGGCAATGCGGATCAGCGGATATTTGTTGCAAG
 GGTTCGCCGAAGCGGAGCGGAAGCGGGTCAATATGATGGGTTGCGGTGCGATGCGCT
 CGCGGATACATTTCGCTGAGCGGCTTTCAAATACCGGCTACTTCAACGACACATCT
 TGATATTTTCGGAATTAATTCGATTTTGGGCAACCGCTGCATGTGATCAGGAAATG
 CCGGTGTCGGCTGACGGCGAGCAATTCGACGGGCGCTGTCATTCAACGGCGCGACA
 CATTAATTAATTCGATGCGCGGAGCTGCAACGCTTTTCATTAATTCGCGCGGCG
 GTGTCGCAACTGATGGGAACGCGCCACCGCGCACTTCGCGCAAAACAGGCTCAACCGCG
 GCGCACTCTTCTTACGGCGAAGCATATTCGCGACCGCGCGCGCTGATTGCGCGCGATG
 TCGAAGATGTCTCGGCTTCTTTTAGAAGCTGTTCGGCATGTGCGCAAGGCTGTTTGGGCG
 TTTTTCGGAATACACGCGCGCTCGGAAAGAATGCGGTGTGAGATTACGATGCCCATG
 ATTTTCGTTTGTGCGCAACCGATTCAAAACCGCTCGCTGCTGCAACCGTGTGCGCATC
 TGAACCTGCTCCCAATAAATAAAGATTAATGCGCTGCAAGCGCTTTCGCGCTTC
 AGCGCGACGCGCTGCGCGGACGAGCGATGATGCGCTGCTGCGCTGCTGCGCTGCT
 AATCTGCGGTATGCTGCTATCGCGCGCATTTTCAAAACAGGTTTCGCGATTCGCGCA
 CGCGCGCTCGCGCTTTCCGAAGCGTACAGGATTTCTGCGGCGATATGCGGTTTCATAA
 TCCCGTAATATTCGCAATCAGCGGCGAGTGGCTATTGTCGGGACTTTCAGCATGGATTC
 GACATCCAAACGGTAGGGATGGCTTTGGTATGTTCAATACGCGCGACTGCGCCAGAA
 CAGGTGCGCGGTTTCGCGCGGACGACGACATATTCGCGGCAATCAACCAATTCGCGAGA
 ATGCGCTGCTGCTTTCACAGCAACCAAGGAGATGTCAGGTTTCGGGCTTCATTCATAT
 GCGAAGATGCGATATGCGCGCGCGCGCAATGAGGATGCGCGCGCGCATTCGAAGC
 GCTGTCGACATGCGGCGAGCTTGGCGACGCGCAACCAATGAGGTTTCCCTGCTATGCGC
 CGATGCGCTGCTTTCGCGCAACGCTGCGACGCTGCGCGCGCTTTCATCGGACTTGAAGT
 GTCGTATTAAGTTTGGCGAAGTGAJAAACGGAATCGCAAAACATGCTCGCATGCGGCA
 TACTGACGGTTCTGCGGCGATACGAGCGGTTTCCCGCGCGCAAGCGCACGCTTTGGC
 GGCACCGGCTGCTTTCGCGCGGATTTTCCGCACTGACGGTTTTCATGATCAAAAT
 GCGGACGGGTTTCTGACCTCGCGGAGGCTGTCGACCTGCTGAGGCTGCAAAACCGTATC
 GTGCGGATTTGCGGCGATGACATAGCGCTGTGCGGCTGAGAAATGTGTTCTGCGAGAC
 TCTGCTGCGATAGAGCGGCAACGCGCGCAATGCTGCTTTCGCGCGAGCGCTGCTGAT
 GACAAATATCATATTTCTTCTGACACAAGAAGCGGCTACCCAAATAGGATTTTGCA
 AGCGCTGTATATCTGTGGCTGTTTTCAGACGTTTTCGGGCTATGGAATTTATATCGGTT
 TTCCACAAATACGCTGAAATATGCGGTGCGCTGCTGACGATATGCTTTTGGCGGCA
 GTCGGGCTGACGCTTCCGATATTCGCACTTCAACGCTGAAACATTCGCGAGCGGCTCA
 CAACAAAGCATTCGACACACAACCGGAAATTCGTTTGTATGGGCAATTCAGCGCAGG
 CTCTTCCCGCGCGGCGCTTCTGCGAAAAACCTGACATTAACGCAACGCGCGGCGGAC
 CATGTCGCTTCTGCTGCAACAGCAAGGAGGCTGAGCGGCGGCTGCGGCTGCGGCTG
 GACATGATGACGATTGAAATAGGTTTTCGATGCGGAACTTGCCTGCGGCGGAC
 GGGAAAGCTTTTGAACATCAAGACCTGATCGACGCGCAAAACCGCAAGCTCTGATG
 AACCGCATTAATGTCGAACAGCAGCAGCTCGGCTCAATTTCTCGAGGACAGCTTATC
 CTGAGGGAATCAACCTCAACCTGCAATCCGCGGATTCGTCGCGGCGAGCGCTTGAAGT
 TCGGCGCATATGCTGTTGGGAAGCTGCTGCTGCGGCGAAGACGCGGCGCTGCTGCTT
 TCAAAACGCGCTGCGCGCGCGCAATCTCAACGCTTCATTTTGAAGCTTCCACTTCGCT
 CAGCGGACGGATATGATATTTTCACAGCGCGGCGGCTGCTGCGGCTTCAACGATGCAATG
 AATGCGGATTAACGCGCAATTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 ACGCGCAAACTCCGCGCTGCGCACTAGGACACAGCATTAAATTTGAACGCTCAAC
 GCGCATTTACCGCGCGCGCGCAATATGCGCGATGGGACGGTTCGTTCAACATCGCAAA
 GCGCACTGCACTCGGCGATCGCAACATCGGCAACGCGGAATCTCGGCGGCTTCAAA
 ACACCGCGCACGACGCAACTTCTCCCTCAATTCGCGCGCTGATGAGACGGAACAAA
 GGGCTGAGCGCGCGGCGCTGTATGATTCGACGCTTCAGGATACCGCTCAACGCGCTCGCG
 CAGCGGCGGCTTCACTGATATTCGACAGCGGCGGCGGCTGCTGCGGATGCAACGATGCAATG
 AATGCGGATTAACGCGCAATTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 CATGAGACGCAACGCTGCTGGAAGCGCGCTGCGCATGCGCAAAATTAACCTGACCGCT
 TATCTTGAACGCTGCGGCAACAAACGCGCAAAATTTCCCGCACCGCTGCGCAAGCTG
 TCCGGCGCATCTGAGCGGCGCACTGAAATCGGAAAGTCCAATTTCCGCGCTGCAACG
 GACGATATGGAACCTACTCTCACGCGCAAGGCGCATATGCGGCTGCGCGCTTCAAG
 TCAAGGCTTTCAGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 ACTTACCGGCTGCAAGAGTCAAGCAACATCAATTCACCGGCTGCGGCGGCGGCGGCGG
 TTGCGGTTTCGCACTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 GAAACCGGAAAGCGCTTACCGCTGCTGCGGCGGCGGCTGCGCTCAATATTCACAC
 GGTGATGCGACGGTATCGCATGCAATACTGCGGAAACCGGCTTTCGGGCAAACT

Appendix A

-395-

[illegible]

Appendix A

-396-

CCATTCCAAACCGCTCCAATATGCTCGGGGAGCATACCGGGTTTCAGACGGCATATCGTGC
CGAAGCAGACAAAGTCAGGCTGTAAACGGTCCCTTTGGTCAGAACCATCGCCAAAGCATA
AGCAACAGGCGCGGAGTTCGGCGATACGGCATATCCTTCGGCAGCGGATCGTCCGCGCG
CAAAACCAAAACGAGCCGCAATCCCTCTTCAACAGTCATCGCGCTTCGCGCAATGCCGT
TTCACACCGTCCGGCACACAGGGCAATCGCGCTGTCTGCTCATATCTCGACGCAATAT
CGACCATTTGCCCGCGCTTGCATTTGTCACCGCAACCGAAGCAATCGGGCAGACGGT
ATGGGATTTCAACAGCTTCACCGCAATCGCAACATCGCAACATCGGCAATTCGCGCTCGTGC
GGCATTAACATACAGCTTCGCGCGATGGGCGAGGCAATGTCGCAACCGCGCTCGCATAC
CAAAACCGCGCGCTTACTCAACGGCGGGCTGTCATAGCGGGCAGGAACGGCAATTCGCG
CCTGACATCGGGCAACCGTCTGGCAAAATCGGACATTCGCGCCATTTTGGCCACTGGGC
CATATCGCGCATTTTGTCTGCCGAAACCGCGAGCGCGCATGCGAAGTGAACCGGGCA
AATAATCGAGCGCATATTTCTTCAAAATTTACACTGTGCGCGATTCATTAACCAAGGCC
TATCCCCCTGACATGCCGAATTCAAACGCATTTCTGCCCCCTTTCTCGACAAACCGCG
CCCTCGGAAAACCGGCAGAAATAGCTGAATTTACATTTATCATATATATGCCCTATT
TGCACGCTGCGCGCATATATGAGCACACTGCGAATGTCGCGATTCACACACCGCG
CTCTCTGTCGCGCACAGCGGGCATATGCTTCTGATAGACCGCATACCGGATACGGCGA
TGAATTTGTGCAAGCAGGGGCACAGGTAAAGCCCAATCACATCTTTTACTTGACGACAA
ACTGCCCTACACGGCATTTATCGAACTGATGGCACAGGCTGTCGGCGCATGTCGCGTAT
CCAAGCCCAAAACGACAGCTGCGTGGTCCGCTCGGCTTCTGCTGCGCACGCGCAAACT
TGAAATCTTCGCGCAATCGCTCCATCGGCACGATCTGCTGGCAACGGCGCATATGCTC
TATTAGGATGCGGGGGTATGGCGGTTGTTGACTGCGAATTCGCTTGGAGACAGCGCGC
GGAATCTGCTCGAAACATCTCTTTCGAGCGGATTTTGGCGCGCTCTACTCAAGCT
GTACAGGCCCGCAACCCCTGCGGCAACACCGATGCGGCTGGAACAGGCACACATACG
GAGAACAACGATGACGGAACCTGCTCTGATTACCGGCTCCAAACAGGGGCGATAGCAAAAG
CGTGCATCTCGTTTGGCGGAAGACGGCTTTGATATCGCTGCTCCACTGCCCGAGTCCGCG
CGACGAGGCCGAAGCGGTGCGGGAAGAATTCGCGGCTTTGGCGAGAAATCGCGCGCTGTT
CGAGTTTGACGTTCGCGACCGCGAAGCGTCGCGCGAGATCTGACCGGACATCGAAGC
AAACGGCGGATTAACGGCGGTGTTGTTGAACGCGGACTGACGCGGACAACTCTTCCTCC
CGCTTTCAAGATCAGGATTTGGGATGTTGCTGCGGATTAATGCGGATTTTACAA
TGATATGATCTCTGCGGATTAACGCGATGATGCGGATGCGGATGCGGATGCTGTG
TATGGCATCAGTGTCTGCGGCTTGACGGGCAACCGCGGCGAGTCAATTACAGCGGTCGTA
AGCAGGCATTTATCGGCGCGCAAAAGGCTTGGCGGTGGAATCGGCAACGCAAAATCAC
CGTCAACTGTCTGCGCGCGGCTCTCATCGATACCATGATTTATCGATCAGAACGTACCTGT
CGAAGAACTCTTAAAGGCTGTCGCCCGAGCGCTTATGGGCTGCGCGAAGAGATGGCGCA
CGCGGTGCGTTTCTGATGATGAAAGGAGCGGCTACATACGCGCGAGGATTTGCGGT
GAACGGAGGTTTGTGTTGAATACAGAGAGGTCGAGTACACGGCAAGCGGATCTTACCT
GGCTTCGCGCGGATTAACGCAACGATTAACGCGGATTAACGCGGATTAACGCGGAT
AATATATGATGATTAACGCGCAACGCTTCCCGCAATTTGAAGGCGCAATTCAGCGGTCG
GAAATTAACGCGCGCGCAACATTTGACGCGCAAGCGCTCGAAGATGATGGGCGCGGTG
TGTACTGTCTGCTGATGATGCGGCGGAGCGGCTGCGGAGTGGCGGTTGCTGCGGGAC
GAAAGCATTACGACGCGAGGATGGGCTGCTGCTGCGGCTCTTCCAGCGGACGACCAAA
GACATCGCGGATGTGGCGGAATTTGTTGCTGACGCGCACGTGCGCGAATTTACGCGCAAC
ACCTATGTGGGTATGATGCGGCAACACCGCGCGCAATATCGGCTATTTTTCGGGGTG
AAAGCGGATATCTGCGCATCGAGCGGTGTTGTCGCGGACGAGGATGATGATGAT
GCTATCGAGGCTCAAAATAGGCTGTGACGATATGATGCTGGCGGCGGAGGCGAAGAA
TTTTTCCGCTCGGAAGTGATGTTTTCGACTCGCTTATGCGCGAGCGCGCGCAACCGCG
GAACCGGAAAAACCGCGCGCATACGACGCGAACCGGACGCGGCTGGTCATCGCGGAA
GGCGCGGGGATTTTCTGCTCGGAAGATTTGGAACACCGCAACCGCGCGGTCGCGATAAT
TACCGGAACTCTGTCGGCTACGGGCGCAACAGCGATGCTACCATATTTTCCACGCGCGCG
CCGAGCGCGCAAGCGCAATCTTGCCTTTCAAGCGCATTCGCAACGCGCAACCTTCGA
CCGAGAGCAATCGGCTGATTAATGTCGACGCGACCGGCTTCGCAACGACATATG
CAAGCGCGCGCTTCGCGGTTTCCGCAACAAAGCGGCTGCGCTTCGCGCTTCGCGCT
CAACCGGACACGCTGGGCGCGGCGGACGCAATCGAGCGCGCTTTCGCTGGGGCAT
CGCGGACGCGCAAGCAATCCGAAAGGAAATCTCCGCGCGGCTTTGGGACGGGAGAGAC
GACCCCAACTGCGCGCATCAACTGACGGGACGCGGCGCTGGGAAACGCAAA
CGCATACCGCGAGCTGCTGCTTTCGCTTTCGGAAGGAGCACTGCGTCTTAATCATCGGA
TGTATTAAGTTTGTCAATCCGCGGCTATGCTATACAAATACGCGGCTCTTTCGCGGCT
CTGATGCTCAAGGCTTAGGCGAGGCACTCATATCCCTTGTGCTGGTTCGAGACCGCA
CGAGCGCGCGGCGGAGGATTTTGGGTTTTCGCTTTCGCGGCTTTCGCGGCTG
CCAAATCTGTTGAGAACTCTTGAATGAAAGAGTCAGCGTATGATTGCTGCGCAAA
ACGAGCAACACCATTCAGGAATGATTGAAAGTTCGCGTTTCGATAAGAGGTATG
TTATCGACGACTACGACCGCAATATCTGCCGAATTTGCCGAGGTTTGGGCGCAAAAG
TCTTCAGACGCGATTTGAATGGGATTTGCGAGCGCAAAACCATTTGCCATCGAAGCAG
CGCGGAGGATGGGTTTCTCGATTGATGACGAGCAAGCTGCAACCGCGGCACTATCTG
ATGAGCTCAAAATTTGCCAAGCGCGATTAATGCGGCTATTTTGTGCAAGCGCGCA
ACCTTTCCGACGACGAGGCGATGCTGCGGCTTTCGCGGCTTTCGCGGCTTTCGCGGCT
TGATGCGCAAAAGACAGTTCGCGCAAGCAAGTACAGCAACGCTCAAAACCCCT
ACCCCAACCGCGCTGGAAGCATTTATGTACCATTTACAGCTACGCAACTGGGAACAT
ATTTCAACAAGTTCAACAATATCTTCCATTTACGCGCAAAATACGAGAGCGGGAA
AGCGCGTGGTTTGGTATGGGACATTAATCTCCGCGGATTTGGGGTTTTTCAAAATTT
ATATCTGAACAAAGGCTTCTTATGAGGAAATGGGTTGATATGCTGCTCAACCA
GCTATACAGCAAGTAAATATGTCAACTATTAATTTATACAAATCGCGGAAAT
TTTAAATGAAAGCAAGATTAATTAATTAATTTATGCGCAAGTATGGGCTGAG
CGCAACATATGCTATGATGTTTCAAGAGATTTGGGCTTCCGGCTGCAAAATCGG
CGCGCGTCAATAAAATATGAATGATGACAGCGGATTTCCGAAAGTTCTTTCGCTT

Appendix A

-397-

TCACAACGGCGCTTACACAGCGTCAACGGGCTGTTTTCGCTCTACGCACCTTACCGCTTTA
 TCCGGAAAAACCGCATTTCCACCTGATGATACACACCGGCAAAATTCGCGCCTTATCCA
 TACTTTGAAJAAACTGACCGGGGTGCGCTGATATTGTCAACATATATGTCGTGCGCA
 ACAAAACCGATTTTTACACCGCGCTGATACAGAAAAACACAGACCGCTTTATTTCGGCTT
 CCGCTCTGGTTTACGATGTGCAACCGCGGACAACTCCCTTAAAGAAAAATCCGGATTG
 TGCATACCGGATGATACACCGCGGCTTTCCCTCCCTCTCAAGAAAAACCGACAGCGCTT
 TTTTACCTGTGCAAGTACGCGAGATGTCGCGAAGAACTGTGGAAGAACTGATTG
 AGGCTGTGTGTAAGTACGCGAATCTTCAAACTAGGCTCAAAATGCGAGGGACG
 GACATCCGGATTATATGTGCCGCTGAAGCGGGAGCTATCTGCTCAGGAGCAGAACCAT
 TTGTTCTTTTGAAGGTTTACGAJAAACTTGCTGCTTTTACCGCAAGCGATGTGCG
 TGGTTTGGCCAGCTCGTCCGGAGGACCTCGTTTGTCAATATGCGAGCGGATGTAAT
 GCGGAACGGCGGTATTTCCAATCTTTGGGGCGCAAGAAATTTGTGGAACATCATC
 AATCGGGGATCTGCTGGCAAGGCTGACCACTGAACTTTTGGCGGACGAATCGAACCGC
 TCGCTTGAACCGAAGAAACGACCTGCGCAAGCGCTCATGATGCTCCGCG
 CCGCTTTACCACTCAACCTACCGCGCAAAATATTGGATGCAATATAAATGCTTTCA
 GACGGCATATGCCGTCTGAAGCGCTTTGATGCAACAAACCAATAATATTGCTTCAT
 TGGAAAGAAACACCCGAATTCATCCTTCAAAATAGAAAAATCCCAATATCCCGGATAT
 TACGACGCTTATGGCAAGTTTTCGACGCTCTTCCCGGCTGTGTCGCCGCGCTCAAGT
 GCTTTTGTCAATGTATAGTAGACTAACAAAAACAGTACAGCGTTCGCTCGCTTAGCT
 CAAGGACGACGATTCTCTAAGGTGCTCAAGACCAAGTGAATCGGTTTCGCTACTTCTGT
 ACTGCTCGCGCGCTCGCTCGCTGTGCTGATTTTGTTAATCCATATACCTACTTACCA
 TTTCTTAATAAATTTTACGATGTACGATATTGTTATGCTCCAAATCGGTTTCGCT
 TGTGCGGAGGTTTCGGCATCGGTTTGGCGCGATTGGAATTTCCCTATACGCGAGG
 CACCAACGGCGCGCGGCTTTTCTGCTGTTTTGTATATTACTATCTTGGTCGCCCT
 ACCGCTTCAGCTTCGCGAATTTTATACGGCGCACGGCGGTAATAATGCCGCTGATTCT
 CTTCAAGGTTCTCGCTCGCGGACGCAATGCTTTGGTGGCGGATGCGCGTTGCGCG
 CTGCTTTATTTCGTGCTTTTACAGCTGTGGTGGCGGATGGGATTAATAATATGTGGT
 CCACAGTTTATCGGGCGGGTTTACCGCGCGGACTTTGAAGCTGTTTTCGGCGGACG
 GATTTCGAATCTGTCTATCAGCGCTGTATGCTCAATGAGGTTG
 GGTGTCAAAGCGCGCATTTTCAGACGGCATGAAAGGCAAACTGTTATCTGATGCGCGG
 GCTGTTATCTCTTTTATGGCTGGCAATCCGTTCTGCTGACGCTGCGGGTGCAATGGA
 GGGCGTGTCTTCTGCTCAACCGAATTTGGTGATCTTAAAGCGGATACGATGATTAC
 GGGTTTAGGCGAGCGGCTTTTGGCTGAGCATCGCGTTTCGCGCATGATTACCTACGCG
 TCTAATTGGGAAGAATCAGGATATGTTCCGTTCCGCGCATGCAATTATGTGATGAA
 CTCCTTGGTTTTCGCTGCTCGCGCTGGGATTTTTCGGCGGGTTCGCTCTCGGTT
 TGAACCGACGATCGGATGATGTTATGATGATGATGATGATGATGATGATGATGATGAT
 GCGCTTCGGTACGCTTTTCTGCGGATTTATGCTCTGCTGCTTTCGCCACGCTGAC
 TTCGGCATTTTGTATTTGGAAGCGCATTTGCTCAACCATCCGCGAAGCGAGCGCA
 ACGCAAAACACACTTGGCTTTCGCGCACGGCCATTTCATTATCGGCATCCGCTCGCG
 GCTGCTTTTCGGCGTATGGGCGAGTTAAGGTTTTCGGCAAAACCAATTTTGTATTGCG
 GGACTATGTTATTCGCGCTCATTAATGCGGATTTGGTCTTTCGAGTCTTCATCTTTAC
 CGCTGGATTACAGCAAGAGCTCTGTGTATAAAGATGCGCGCGCGGACGACCGGTACC
 AGCGCGAGCTGCTGCTGTGGTGAATACCTTGGCTACTTCTGCGCGCTGCGCATTAAT
 TATTGTTTTATCAATCTTTGCGCATCTTTTAAAGCATTCGCAACAGCAAAATCGCG
 TCTGAAGCGCTTCAGACGGCATTTTTCGCTCGGTTGAGCTTATTCGTTCAAGATATA
 GTGGATTAAACAAATCAGGACAGGCGACGAGCGGACAGTACGAATAGTACGGAA
 CCGATTCACTTGTGCTTCAGACACTTAGAGAAATGCTCTTTGAGCTAAGCGGAGGCA
 ACGCGGTACTGGTTTTGTTAATCCATATAGCTTCGCGGATGCGGCTCAAGGCAAAAC
 CCATACCCCTTTTCGGCAAAACGGATTTCAGCGCTGCTCAACAGAGACTTTTCGCGAAGCGGA
 CCGCTTTCAGGCTTCGCTCAAGCTTTTGAAGAGCGCGGCTTTTCGCGATCGGAGCGG
 CGCAAAATATTCGGAATGATTTCCGACAGCTTCGCACTTCGCAATGAGCGCGCT
 CCGTCAAGCGGATGAAATTCGCGGACAGGCTCAACAGTTCCAAAAATCCGCGACGCGG
 AAGTCAGATAACGCTCCCTGTTTCAGCGGCTGATACGCTGCTCTCAGGTTAAAGCGTGA
 ACAATTTTTCGCAACGCGGCACTTCGCGCAAACTTGTGACCAATCCGCGCGACGCG
 CTGTGCTCAACCGCAAGAGCGGAGCTCGCGACGCGGACCAAGTGCAGCATCTTTTCAG
 AAAAAACATTTTCACTGCGTTTTCATCCCGCTTGGCTTTTTCATCATCGCGGCGAAAA
 GGATTCGCGAGGAAGAAACCG
 CCGCTGCG
 CGGATCGGCGCTGACCTTCCACTGGAATCTTCAACTGAAGGAAAAAATCTTT
 GACTTCAGGATTGATTTTCATCACTGGCAAGCGCGCGGTTTCGCTTCCACTGCAATGCG
 GGCTGCTGGAATGGTTGGGTTACAAATGCGCGCTCGCAACGATGACAACTGCGCG
 CGCTCCCAATCGGCACTCTGCGCATCATGATGTCACAAATGCTAGCTGGCAATATT
 AAACGGCACACCAAGGAJAAATCTGCACTACGCTGGTAAAGCTGGCAGGACAGTTTGGC
 GTGCGCAAGTAAACAGAAACAGCGCTGGGAGGCGCGCGAGGCGCATTTTATCGACCA
 ACGCGGATTCAGCGGATGCAATACAGCGGCTTCCGATGATGCGGATTTCTGCTGATGTC
 CAGCACTATCTGGCAATTTCACTGATGATGCTGCGCTCGCGCGCGCGCGCTAGGCACTG
 GTAGCGCTAAACGGGCTTAAGTGGCGCTTTTCGCTCGCGCATCTGCTCCAAATGGAAC
 ATTGTGTCCTTAGGTATTGATATTGATATTGATGCTTTCGAAACCAAGCAGCTGCTG
 GATAATCGAAGCGAGATGCGAGCTTTTGGTGTGACGACGGAAACCTTTGCCCAAGCT
 AAACGCGATCTGATACCGGAATACGGAGCGGCTACCGTACCGGTCGCGCTGATTTGCT
 CTAACGCTGTGCGAGGCTGGCGCATCAAGTCCCAATAGGCTTTTATAGCGAGCTTTTCA
 TCAAAATTAAGCGGATATGCACTTTCCGATATGCGGATGCGCAACGATGACGATGAGG
 AAGGAGGATTTTGGCAATTTCACTGATTTCCAGATGCAAGGATGCGGAGGCAAA
 TTACTCTGATTGGAATCAAAATCTAGTTTAATTACTAGATAAAATTTCAATATAT
 TTTTATTACGAATTAATTTATGATTGATTAATTAATGCGCAACCAATCAACAT

-398-

[illegible]

Appendix A

-399-

[illegible]

-400-

TTTTAACTTCAACACTTTCACGGCGGCTTATTCCTGGCTGACCTCAGGAAGAAAGCGCTGTCTT
 CTTACCTACGTCGGCAGCGCGCGCGATGAATGGTGGCCCTCAGGAGTATAGTGTGGGGCGGACG
 CGGACGGATATCTTGAAACCGCGCGGCTTTTGATGTCGGAAATACCGCGCGAATATAGAT
 AATAGTAAATATACCGCGAAATAATGGGGCGCTGATAAAATAATTAGCATGTATGCTCT
 TTTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CGCGCGCGCTGGTGGTTCAGAGCGCGAGCTTCTTGGGGCTTACTCTTGCACCGCTGT
 TATGTCGGGGATATGATGCTCTTCCACCAACCTTGTGGCCGGCTCTTCAGACCGAGCT
 ACAATTCGAATTTGCTACCTCTGCTTGTGGTGGCAACGCTTACTCTGGGGGGTTCATACCGCT
 TTGGGATCTACACATCAATCAGGTATTTTTCGACACCGCGGATTCAGCTGGTCTCGGGAC
 ACAAATGTGCTTATCCACCGGCTGGTGCATCAGACGCGAGCATACACACCGCGCAT
 CAGATATTTCTGATGTGTTGGTACGCGCGCTGGGCGAGTAATTCAGCTCGTGAATTTGCT
 TTTGAGTGGGCGCGCAATACACATTCAGCGCGCAGCATTTGGCTTCGGTATTTTCAGG
 GCGCAATTTTCATCATCTTCGATTCAGCTCAGCTGGGTAGATTCACATATCATAGTTGGTT
 CGGGATGGTGGCGCATAGCTGGTGCAGCTGGTGGTGGTTCAGCAGCATCTCTCGGAAATTT
 TGCTGACGATGAATAAGCGGAAATACGGCGCGGAGTTCGGCGGAACGGTACAGTGTATGGC
 GCGGATTTGATTCGGCGCTGCGCGCTTTAACGCGTGGCTCGGCGAGATTTGTGGCT
 TACCGCATACGATTTCTGCGCGGCTGGGCGCTCTGGGCGCAATCAAGGCTTTGTGGCT
 TGGT
 CTTCTTCAGACTCTCTTGAACAGGCTTGTGGATGTTCAGCGCGCTCTCGCGGACG
 GACATACACGCTTTTGAACATGGGTTTTTGGATGTTCGGCGCTCTGGCGGCGGAC
 ATGCTGGATGCTCAGCAGCTCTCAAAAGCCCGGACCATTCGACGCTCATATGACGACAGTT
 CGGTGGGACGCTGACGACACGACGACGCGCGCAGCGCTCTCGCAGCAGAGCTGTCCG
 GCGCTCGCGCGCTCTCGCGCTTCTCCGAGGACGACGAGTCAATGTACAGCGCGGACG
 CACGCGCGCGCGAGCATCTCTTAAAGCAATAAAGCATGTTTCTATCTATGTCTGTCT
 TTTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 ASTAGCGCTGTGGCTCGCTTACCTCAAGAGAACGATCTCTAAGGTGTGGATGCCA
 AGAATGACGTGCTGCTGATTTTGTACTGTCTGGCGGCTGGCGCGTGTCTGTGATCTGT
 TTATCTCACTTATTTTCAGGATATAAAACCGCTTCTGGCCACCGCGATGTTCAAGG
 GTGCTCGAAGCAGTTTCTATGGGTTTCTCAAGTGTGAGATGTGCTCAATTTCTAGGGT
 TCTATTATGACACAGATTCGTCATGTTCTTAAAGTCTTTTATAATCGCGCTCTCAATAA
 TTTGCTTAAAGCAACGATTTCTGCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 GATACATCTGCGCTTGGCGCTTAAACCTTTTACGAGAGCTCTTCTGCGCTCTGCGCATCT
 CTCACAGAAATCTGCCAAGCGCGCGGTGACGCGCGCGCGCTCTATTCGCTTTCAA
 ATATAGGAAGTCTTGGACGCGCGCTTCTACAGTATCTGGGACCATGAATGAATCT
 ATGCGCGAAGATGCGAGATCTCGAAGAGCTCTTGGGCGATTTCCGACACAGCT
 TGTGCTGAGCTTTTGGGCGGCTCGAAGCAGACCTACTACATAAATTCAGCATCTCTG
 TTTTAAATGCGGACACGCGGACACCGCGCGCTTATTCGCTATCGCGCGCAATCT
 TTTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TGGT
 CTGATTTGGCGGTGCTCTCTCTCTCGCGAGCTTCTGATTTGGGCAAGAAACCGCGCGG
 CATCTCGGGAATATGATGTGACCATTTGGAAATCTTGGACATCTGGCGCGGCGATCA
 AGCTCTTGGTACGATCGCGCTCGAAGACGACAAACCTCTCAGACGCGATCAAAATGAC
 CAAAGCTCTCTTAAATAATATTTTGGACCTTTGCAATATACATAGTTATCTTAAAT
 TTATGTCAATCTTATTTCAAATGCAAACTTTCTGATTTTCTTCTCTTTTGTGCTCA
 GTGATGACATCTTCTTCTGCAATCTTCTGCAATCTTCTGCAATCTTCTGCAATCTTCTG
 ATCATCTGTGACGATCTCTCTGTGGCAAAATGTGCTTCTTCTGCAATCTCTTCAAC
 AATAATCTCATCATGAAGGCTTTATCTGTGCTGACGAGTATCTCTGCGAATGCTTCA
 TACGATCAAATCACTCTCATCGAGGATTTATTTGCTGCCAATTTTGTGAAATTTCT
 TTTCTTCATCATTTATCTTCRATATTTTCAACTTATATCAATCACTCAATTAAT
 GTAAATCAATCTTTCTCAGCATTTTGGCAATATAAAGCAATGAATTCGCGGCATTTCTG
 GATGACATCTTCTTCTGCAATCTTCTGCAATCTTCTGCAATCTTCTGCAATCTTCTG
 TGGT
 TGGT
 GGTATACATATCGCATATTTGATTTGTTGCTTCAAGAAATCACTCAGTTCATCATGAA
 AATATATGACGATCAATATTTTATTTTAAAGAGAAAGCAATCAAGTCAAGTCAAGAA
 CGGCGACGACGATTTTACGACAGCTGAATGGCGGCGCATATTTGGCGCATCTCGGTT
 AGCGCTTTTATTTTATTTATTTGTGTATTTGTTGATTTGCTCTCGGCTGGTGCGTATTT
 TGCGATCTGCGTCCGATCGCGCGCTTTGGTGGGAAAGCGCTGGCGATGACGCTGCG
 TATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAGGATTTATCATATACCGCTCTGAA
 TTGGCTATCTGCTCTGCTTAATCTCTGCTCGGCATCATCTTCTTCCCTGGGCGCAT
 CGGTTCTCGGCTGCTGCGCGCTTCTCGCGCGCTTCTGGGCGCTTATTCGCGCACT
 TTTTCAACATCAATCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCTGCGCGCTTCT
 ATCGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAAAATTTCAACGGTTTTCGCGCTGGGACAGCTGTGGTTCTTTATTTGGGCGGGG
 TGGTGGGAAATAACCGGCTGTGTTTCCGCAATTTGGTGGCTTTATGCTCAAAATCGCA
 CGGCAATCACTACTTTTATGTTGTTTTCACAG

Appendix A

-401-

TTAAGAAGTGGCGCTGGGGGGGAGCGTGTGTTATCGCGTTTATTTATTTGTGCT
 TTTATCAATCTGATGATAGGCTCGCGCTCCGGCGAATGGGCGTAACGTGGCGCGATTTTC
 GTCCCTATGCTGATGTTGGCGGCTACGCGCGCGAAGTCATTCAAGCGCTTACCGCATC
 GGTGATTCCGTTACAAATATTATTACGCGGATGATAGTTATTTCCGGCGTATTATGGCG
 ACGGTGATCAATAACAARAAGATCGGGCGTGGGTACGTGATTCTATGATGTTGCGG
 TATTCCGCTTCTCTGATTGGCTGGATGTCCTATTATCTGCATTGGGTATTTGTTTG
 GGCTTCGCGCGCTGGTCCGGGCGGCCACATTTATCCCGCACTTAACACGATAAACA
 AATGCGCTGTGATGCTGCTTCAGAGCGCTTCAGAGCGCTTCGCTTTCTACCGCTCAGG
 CTTCTCCGGCTCTTCCTTTTTTTCGCTCGCGCAAGCGTCTCGCGACGACGACGACGA
 GGTTTTCAACAGGGCGTGTTCGAGCGGGTTTGGCTTGGCTGCCGAACACGAGGGCGA
 CTTCCGTATAGTCTTTTCGCCCTTTCTGACTTTTGTGCGGTTGGTAGGGGCTTTGGGCTT
 TTTTCAGGGCGGCTTCCCAATCTTGTTTGGGCAACGCTTCGCGGTGGCAAGCGAGG
 TTTTGGCAAAAACGCGACGGCGGGTTTGGCCGATTTGAAAACCCCATCCATTCGCG
 ACATATGCTGCATGCGCTGTCTTCGCGGATTTCGCGCAATATTTTCGGTTCTTCGGATT
 GACGATAAAGTTGTCGCGATTTCGCTCTACAGCGCATACGCGCTAAATATTCAGT
 GTTCCAGCAGAAAACGATACCTTTCGCGCGCTTGGCTTTGCCGTAGGCTAAACACATT
 GTCCGACGGGTACAGATTGCCAAGCTGCCTTTCAGGATTTGCCGCTCGACGGTATGG
 CATATGAAGCGGTGGCAGTTTGGGCGTGTTTAAACCGCGCTGTGCTATTGTTGGCAG
 CAGTTTGAAGTCTCTGCGCAAGCTTGCCCACTTCGCCGACGGCAGGAGGCTTTCGCG
 CCGCGATCGGGCGCGGTTTGGGCAATCCCGCTCTCGCACCGCTTCGATGTAGA
 TTTTCGCGATTGATCGGCGTGTTCGCGCTCGAGGGTTCGCGAGGCTCCGAGCTTCGCG
 CGATTGGGGTTTCGCTCCAGCAGCTTCGCTGAACCATTTTGACAGGGTTCGCG
 AGAAGCGATTAATCTCTCTCCGATTTCCGCAACAGGTTTCGCGCTTCTACGGGT
 GATCGAAAAGGGTTCGCGCGCTTCGCGGCTTTTCGCGAGCGCGCGCGTACGTGCATC
 GCGTCCGCAATAGCGCTCTGAAGCTCGCGCTTCTGAAAATATCGGCGAGAGAGGCTT
 CGACGGGATGCTGTCTATCAGGTTTGTGCAAGTTTGGCGCTACCGCATGCGCGCATAG
 CGGCACCGATTCTGATGAGTTGCCCAACAGGGAAGACGGGCGAAGCTCTTCGCTTCGCG
 GGATTCGCGCCGATATAGACAGGTCAGGATTTACGCGCGCTGATAGGCGCTTCGA
 GACAGAGGTACGGCTGCTCTCCGCGCGGCTTCCTTCGCGGGATTTTCGCA
 TCAGGCTGATTAATCTCTCTGATTTCTGATTCGCGGAAATCTCGCTGCTGCAACCCACAC
 GCGAGTACTTTGAAGCGAGGCTCCGCTACCGTACCGACCATCTGCAAAAGGTGATCGCG
 CGCTGAAAAGCTGCGCTCGCTTTCGCTGTGAGAAAGCTCGGATATCGCGGATGACGG
 TGTGCGGCGGCACTGTCCGGAATTTGGCGCAATTCGGTTTCGCGCTGCCATTGACGCC
 ATTCGTTTCAAGGTTTGGAGTACTTTTGTGCTACGCGCTTCAGTGTGAACATGTGTT
 CAAGCAATCCCGGCAACGCGCCACCCATTTCGCGACCGTTTCGGGCTGCCGCCATATCC
 GTACATATCCGTAGGTTTCGAGGAGGCGGCAAACTCTCGAATTCGGCGTTTAT
 CACCTTCGCGATCTGCTGACATCTGCGCCCATCGGATTCGAGATTTTCGAGATTTCAAC
 TCCAGCCCATATCATGCTCTACCGCTGCTTCGAGGTGAACAGTGTGCTCGCGCG
 CGCGATTCTTCGCTGCAAAACCGATGAGCTTCAAACTGCGCAACATGCTGTCGCAAA
 GCGGTAAATCTGCTCAGTCAAGTCCGAAACGGCGCAACAGGGCGCGGTTTCAAAAGCA
 CAAGCACTTTATCGACTTCAATTCGGCTTCCCAACAGTGAACAGGATGACAAAGCAT
 GAAACAGCGGTTCGCGCGCGCTGATTTTACGCTGACACGGAAATCGGCAATGCTCGCG
 CACCGGCTGCGCTCTCGAACACGGCTTCGATAAAGAGGCTATAGGATTCGATATTCG
 GGTAAATCGCGATATTCGCGCTGCCATCGGATGTTTCGAGATTTCAAC
 CTTGTCTTTGAGTATCTGATTTCCGCAAAAGGCGTGTGCGGAGACATGCGTATCG
 AGCGCTCGCGCGGTTCGACGCTTCGCGCAATTTCAGACGGCAATTCAGGTTTGAATAT
 CGGTTTCGAGGCGGTGAAAAGCTATCGCGCGCGCTTCCTCAAAATCGCGGCTTCGCG
 CTTCTATTTCATTTCTGTTCAAAAGTTCGAAAAGTCCGCGCCCTGCTTCGCGCAATGAGG
 CGAGCGCGGATTCGCTGCTGAGTTAAATCGGATTCGCGCGCACTTTGAGGATTTGCG
 CGCTTCGATGAGCTTTCGCGCAGTACATCCCGCTCGGATTTAGTGGCAACAGACAGT
 CGCAATGTCGAGCAGCTTCGCAAAAGTTCGCAAAATCGGCGCGCTTCGCAAGTTCG
 GACACGCAATTCGCGCGCTGCGCGCTCTGCTGCGCTGCTGAGGTAAACGCGACAGTTTGG
 ACACGCGACACGGTTCGCGCGCTCTGCTGCGCTGCTGAGGTAAACGCGACAGTTTGG
 ACTGCGAGATTTCGCTGCTCGCGCAACGAGCGCGCTGCGCTGCTGCAAGCTTATCC
 ACTGAGGACGGTACACGAGGATTTGCTGCAATATGTCGCAAGCTGTCCGCAAGCTGCT
 AATCTGCGGATTCGCGCTGCGCCAGATAGTCTTGACGACATTCTCCATCTTCAAAATT
 CTCGCGTATTTCGGAATGCTCGCTCGGGAACAAATTCAGCAGCGCGCACGCGATGACT
 CGGCGCAACCGGCTGAGTTCGCAAAAGTTCGCAAAATCAGTTTTCATCAGCTTTCAAG
 TCAGCGCGCGCGAGCTGAAACGAATTCGCGCTTTCGCAAGATTTCACACAGTTTTCGC
 ACGATTTCAGGTAGCGGCGATCCCTGACTCTGCAACAATATCTGTCGCGGTGAAG
 CGGATTTACGGCGTTGATGCTTTTGAATCGCGCAACATTCGCGCGAGGTTTCAAGAC
 GGTGAGTATGATACAGATAAATCATGTTTCAACAGAGAGCTTGCGTCAAGTATTCGCGGA
 TTATATAGCTTTCGCGCTTCGCGCTTCAACAAATTCGCGCTGCAACTTTCAGACGCG
 ATTTGCTCATTTAAACCATCTCTCTCAAAACAGGATTCGCGCAACAGACGCGATATCCAA
 GACCAATACCGCAATGGCAAGCAGTGAAGTTCGCGAGAGAGAGCTGCGATTCGCAATG
 GCGCATCTCATCTCAACAGCAGCTGACTCTTCGCGCGCGCGGAGAGAGAGTGC
 CACGCTTCGCGTGCAGCGGCTTCCACACCATACGCGACGCGCTGATACCGCAATAAAT
 GACGCAAGCGAGAACAGAGCTTCGCGCAACAGCTTCACGACCGCAAGTCCCATATG
 CAGCGCAATGCTTTCGCGCATTAATTTTCGCGAAGCGGTTGTAATGCTCAAAAGGATGTC
 GGCAGGATTTTCGCGCTGATCTGCTGATATGTAACGCGGTTCGCGCAACGCGGCTGAT
 CATCTGCTTAACCTATAGATGCTGCTGCGCAAGTCCATACGCGCTCTCGCTTTGGGCAA
 ATTCACTGATATACGCGCTTTGAACAGCATTTTCGCGCAAGCGGTTCGCGGTTTCAAC
 TGGCTGCGCTGCTGCAAGTTCGCGCTTTCGCGCAAGCTTCGCGCAACAGGATTCGCG
 AGCGTAGCTCAAAACCGACGCGCTTCTTAACTTCGCGCTCATCAATCTTCGCG
 GTGGTTCGCGACGCTGAACCGGGCTTGGTTCGACACCGCATTCGCGCGAGGAACTG

Appendix A

-402-

ACTCCAAAGCCTGTACGAACCTTGGCGGCCAAATACCGGCCCAAGCAATACCGCAGAGGCA
 GAACCAACGACAAAATCAACGACACCCAAAGTCCRAACGTGCGGTGCAGATTCCGCCACCA
 AGAACGCGCCTGCTCTTTGACGGCAGCAGCATCGCTTGATGCGCGCGCGTTACCCA
 CCAAGAGTCAACGCGCTGACAAACATAAATAGTGCATGAAGCTGCCGTTCACAAAAG
 ATAATGCGCTGCGGCACCGAGCATATATCGCTGGGATTCATCCATCGTGTAAATACCA
 ACCCTGATTGCGCGGATGTGACTGACCACTTTTGGCGTATAGGATGACGCGGACCAT
 CGTGCTTTGCGACGACGACGCAACGCGCAACGATCATGCGGACGCGCGGCGG
 AATATATCTGAACGACGACGAGAGTTTCGGGATTAACGGCACTGCTGGCGGCGCTCCGCGCTG
 AACAGCAACAGGTTGTACCTTGGCTGGGCAACACATGAATCGCTGCGCCTCCTTACC
 GGTAAATATTGGCAACAGCAGCATACCCAAACCGTAAACGGCAAGGAGTAAAGAAAGG
 CATAAACGACGACCGCATAAAAATGGCCACGCGCAAAACGGTCAGTAACGCGCGGTGCT
 CTGATTGTGCGCTTCAGTTTGTATTGTGTATCCATTAATCGTCTCTTTGAAATAGGGC
 TATCGTGATGATGCGGATATAAACAATAAAGACTAATCTTTATGCTAAAGTCAAAAT
 TCTATTACCAAAATAGGACCTCGGCTTTAAACGCGGATTCGCGCTTTAAACAAAATAT
 CAGATCAATACTGTATCTGGATTTTCATACCGGATTAATATCGGCAATCATGTCAGTTA
 GAAATTGCCGCGCTGACTGGTTGACCATATAGTCAACCGCAGCTTTAACTCATCATCGCT
 CAATACGCGCGGACGCGCTTTTGGGGCATGATTTGAACCTTCGATGCGGTGTTGTG
 CAACGTGTCTTGGCTTTTTGATGCGGTGGGCGCAATCGGCTTTGATGCTACATGGGG
 AATACCCGGAATGCATTTGCCATGGCAGGGCGCAAAACGGTTTCAATAACCTATTGCC
 GTCCGCTTTGGCAGCGGTCAGCTTTTCTCTCGGCTTAGGTTCTGCTGCGGCGGATTT
 GCGTTGGACACGCGCTGTGCTGCTTTCGCAAGAGCAGAGGCTGGGGTTCTGCGCGGG
 TCGGGAGTGGTGAGAGTCTCGGCTTTTTCACCGAGCTTTACGCTTTTATGGGAAG
 ACCCATACATAACAGCTCATATAATACGAGTTTGTCTTATCCAGAAATGCTCCCAAGC
 GGGCATTGGGTCTGCGACCGTTGGTAATGGTTTCGATAATGAGTTTTCGATACCGCC
 CCACAAACCAACGCTCATAGTCAAGTTGGGACCGCAACCTGGATACCTTGCCCTTATC
 GCGCTGGCAAGTGAACACTTGGCAGGCGGACGCGTGAACAGGCTGTGCTGCGCGCGG
 ACTTCTCATCATCACTGACCTTGGGTTTGAAGGGACATCATATGTAATGCGACCGCT
 TTACGCGCTCTTGGCCCAAGCAGGACCGCAGGACGAGCATAGTGCACACAGGCTTT
 TTCGATGCTTTCGGGATTCGGGATTCGAGCTTCAAGCTGCTGCGCTGCTGCGGATTA
 ATTCCGAAACCTTTAGGCTTTCATCATAGAGCGCTGGCATGGATATCAATAAGTGTT
 AAACAGGTTTGGGCGATTTCGTTGGCTTGAGGCTTTTGGCACTTTTCAATCGGCAT
 ATCCGCAAACTTGGCATACAGTTTGGCTATTGCTCATCGGCTTTTGGACTCTTTTTC
 ATATTGTTTATGGCTGGTCCATTTCAGCAGACCTTTTGATCGCGACACCCGGATACAT
 AACCAATATACCGCATCCGCAACGACGACGCTCAAAACACACAGCGCAAAACACAGCGGGG
 CAGCGGATGTGCTGATTCGGCAATGCGCTCCACTCATGACCGTATGTTGATCTCTCT
 GCGCTCTTTCGGCTGCTGCTTACATCACTTACATCACTGACCGACGAGGTATGCTG
 CACTGTAAGCAATATGCGCAATATATATATTCGCAAAATTAAGTGAATTTGGATGT
 TGTGTTCAATGTTTGTGCTGCTTATCAATATTAACGGTTTTCGTTTCTTATCTTGC
 GCATCTTGGTTTTCATCAAAAATGCTGTTTGGGCGATTATCGTAGTTTCTTATTCGCG
 CTGTTGAAGACGATATAGAGTACCAACAGGGAACAGATAAGATCCATACCGTGAAGAGA
 GCAGGAATACCGTTAATATCCATGATGTTACCTTAGCTTTTCAAAGCGACAGCCAAATCC
 TTGCAGATAGGGACTACAGCATCCAGCTGGGATTGTTTGGCAAGGCTCAGGTCGCTTT
 CGCAATTTCTCATCATGTGAAGGATGACTACTTTCAGCAAGGCTCTCATGTGGGCAAC
 GGTGCAATCGCATCTGACTTATGCGTGCAACGCGGAATGCGGCAATTTGACTCT
 AGGCACGACATCAAGGGATTTCAGCAGGTGATACGCTGCCATTGCTCGGATAGGCAAC
 GCCCACGCTGCCAAATCAGGACGCGTACGTTTGGAAACCCATTGGAGCGGATGCTGTA
 AACGACTCTCCGGCAACAGAGTAAAGCCGTAAACGCTCGGTTCCGCAAGGAACGGAAG
 AATCATTTCGAGCTGGCAGTTGTAAACGCGCTCAAGGATGTAAATACTGCGCTCCGGCAAC
 CTCGAGGCGATTGTAAGGCTTCAACGCGCGGCGCGGCTGTGTTGCGCGCTTGGTAAAGGC
 CAAGGCGACAACTTCAATCAGAGCGGACCTGCTGCTACAGCAGCGGTGAACAACTCAG
 CAGCGCAATTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GTATTATTATGCTGCTGCTTGGGAAACGCGAGGATTTGCGATCGACTTTCACCA
 CGGATGCTGTGCGGCTACGCTTGTACGCCATTAATGCATACCACTCAGATCAAAATAA
 CCACTCGCAAAACGGATCAGCTAGTAGGCAATGGTGGCTTTACGGATTGCAAAACGAG
 TAGGTGACGCTACCGTCACTGCTTCAAAAGACTGCACATCAAACTCGATCACACCGGCA
 ATCCACATGCGAGCATATACAGAAACCGCGGATGTGCGCAATCAAAATATGCTCTCT
 ACCAGCTTGTGCTGTGATCTGTTCTTGGCAGCAGAGCGGGAATCATGTATAGAG
 GACCGGCTGTGCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CAGTCTGTACGCTGCTTAAGCATGTAGCCGCTTTAATCGCATCATCGGCGCTTCAAAG
 GTAGACATACCGTGAAGAGCAAGGATCAATCAAGAAATTAAGAAATCGGGCTGTACGC
 AGTTTGTCCACGCGCGCGGCAAGGCTCATGTCGCTTATATCATCCGCCAAGAGGGGT
 GCGACAGAAATCAAGACAGAACCATACCAAGATTGCGTGCAGTCAGGACGCGCAGTG
 TAGTGAAGATGTTGCGGCGCGCGCACATATAGTAAARAATCAACGCCAAGAGTGAACG
 ACGGACAGGCGGTAGGAGTAAACGGGGCGGCTGCTTTTGGGTAGCAAAATGATCATC
 ATAACGAGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 ACCTAGACATCAATGCTACGGAATAGAGCGGGATGTAGCTTCAACAGCGCGGATG
 CTGATATTGTTGACGATGTGTAAGAGTGGCAGCGCAAAATAAGCGCGGTGAACAGC
 TTTGCAACGTAAATGTTTAATCTTACGTTTGGCAATCGTACGGAAGATACGATGGG
 TAAGCCACCCCAACCAAGTAATCAGATATCGATCGGCGATTCCAGTTGGCGATATCTC
 TTACTTGGGTCACCAACTAGGGAAGCTGACGACGCGCGCAAGATTACGCTGCGAC
 CCCCAGAGGTAAATGCGGCGCAGCCACCGCGCAAGAGCGGGTATTCAGATACGCTTGG
 ACAGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCTGCGACG
 GCAGGACCAAAAGCTGGCGCGCGCGATACGCGCGCACATACCAACATATCCCAAC
 ACTACAGTCAATGTCGCAAGCTGGCGGACCACTTTGATGTTGAAGTTTGTGTGTCATG

Appendix A

-403-

AGAGTCTCCATGAATTTATGGGAATAAAGATTTTATCTCGCCGCTTCGGACGCGTGT
AAGTGCAATTCGGCGCAAGCGTAATTTTTCTAAATTTACATATCTGCCATTATACGCC
AAGCGGAATTCAGTTATCGACCGCGGACGAGCCCTTTGCTTAATCTGTTTTATTTACATA
TAAATCATATTTGTTATAAATAATACAAACCGGACGCGCATTTGCTTTGTTCCAAATTTTC
CCTTTTGTGGCACTTTATGATGATGGTAAAGTATTTAAAGTATTTAATCCATC
CGGTTTAAAGTATATTTGATGATTTGATTCATTATATAAAATACCCCGTCCCTCTCGA
CAGCGATGGCACTCTCGTGACATTACAGACATTCAGACAGATGATGCTTCTATGAATAAG
CTGCCAAGCTGGTCCGCAAGCTACGATTCGATTCGAGATTTTCCCGGACATCTCT
TATCATGATCTCTTAAAGCGACGCTCATGCCGCTGGAACAATTTGCCAAAACCGCTG
GCATCGCGCGCGCTACGCGGCGAGTGGCAATCCGCTACACCGTATATGATTGCTGATT
GTGCGTTCTGAGGTTCTTCTGACGACGAGAACCGGTTTTTTGACGGATGCTGCGCTGT
TTTGAAGCTCAAGGAACGAAACGCTCGCGCACGCTTGGAAATGACGGGATTCGCTG
CGAATGGCGTATTGCCACACCGCTCGCGGAACGAGGAGTTTGTCTTTACGCGCGCAT
TTATGCCGAATGATTGACCGACTGTGCGATGGCTTGATTGAATTTTGAATTTTGA
CGCGGACGCTTCGCCCAATTCCTTAAGCGGCAATATATTCGCTGCTGCGGATTCGCG
CAGGCTGGTTTCGATATCAAAAATCTGCGAACAGAACTGGCGGTGTTTTCTCCCG
TGCCCGGTTTCAAAAATATTGTTCTGCTCCACGCTGGCGGACCATATTACGGCGGTT
GGAACACACCGACAGCAGCCGCGCTGCTCGCGGACGCGCACAGCCTTCGCGCTACGGTAT
GACCGATGCGACGATACCTACACCACTTGCTCGCACTTTCTCCACGAAATATTTCA
CGCGTGGAACTCAATTCATCAACCTGCGCGCTTGCCTCTTATGACTCGACAAAGA
AAACTATACGACCACTATGGGCACTGCGAGTATTCAGTCTTATACGAGATTGCTT
TTTGGACGCGGCGGCACTCTCGCGGAGTTTATTAACTCTGTGCAAGGAT
TCTGCGCTACACAACACCGCGCGCTTTGAGCGAGACTTTGGCGAATCGAGTTTAC
CGCTGGAACAATTTTCAACACCGGATGAACACGCCCAACCGCATCTGCAGTACTA
CCAGAAAGGCGCGCTTCGCGCATTTGCTCTGATCTGATAATACGACACGAGCAACGG
CAGACATTTCTGATACGTTAATGACAACTCTATCGGAGTGAAGGACACACACT
GGTATTCGGAJAAACACTGCGAATCCGCTGTACGAAATACCGGCTTGATTGGA
AGATTTTTCJAAJAGCGTTATACGATCCGAGATTTGCGGCTTGCCGAATGCGCTGCG
AACCGGACGCGTGGGATGACTGCTGCGGCTTCCGCAACGCGGAGTACG
AGACACATCTGCTGCGGCGCTTTCGCGGCGCTTTTGAACAGGAT
CGACACATCTGCTGCGCCATGCTCTCAACGCGCGAGCGGAGATCTGCGGCACTGT
CCCGCAAGCAAAATCATGCTTTAGACGCTTATGCTGCAACGACTTTACCGCAATG
GGCGCGATACACGCTCAATCCAJAAATCAATCCACTTCTCGTGGCGGCAATTGGG
TCANACCGCTTGACGCTTCAGGACGCGCGCGGATCTGCCATCTACATATCACAGA
CGCGAACCCTTGGCAACCTGCTGTTGCTGTTAACTTTCAGGCGGATTTGACACAA
TGCGCTTGAAJAAACAACTAAGTAAAGGACAAATACCAATCTCAACTTGACG
AACCCTCTTATACGCGGATTCGCAACGCGGCGGAGGAGGAGGAGGAGGAGGAGG
GCATCAAAACCGCTATCTCAACCGCGCGCGGAGGAGGAGGAGGAGGAGGAGGAGG
CCCAATCAACAGCTGCTGGAACACGAGCGCTTACTGATTCATCAACACCGCTTA
CCGCAACGACATCCAAJAAACAGATGCGAACCCTTCGCGCACTCATCGGACAGCG
AATATCCGCTGCTTGCCTATTGCGGAGCGGTCAGCGCTGCTCCCTCTGTGGGCTTCC
GCGGGGCGCAAGAGTATGCGGTTGACGAATCATCGCGCGCGCAAGCGGAGGCG
TAAATTTGGAAACCTTCAGAGCGCGTGCACACCGCGCGCTTGATTACAGCGCAAA
GCTTAAACCACTCTACGCGGATTCACCGCACTTTCAAAAGAGGAGGAGGAGGAGG
TTATGCGCGCTGCTGCTCTTCGCTTTTACAGTGGAGACCTTTCAJAAATAGCTCT
GTTAACGAJAAATGACGCTATAAAATCGCGCAAAJAAATTTCAATTGCTTAAACCTTC
TAAATTTGAGCAJAAAGTAGGAAAAATCAGAAAAATTTTGCAATTTGAAATGAGATTGA
GCATAAAATTTAGTAACTATCTTATGCAAGGCTTCAGTGGGTATGCGGATTAACA
AAACACGATACGGCGTGTGCTGCTGCCCTTAACCAAGAGAGAGATTTCTAAGTGTCTGAA
GCACAGTGAATCGGTTCCGCTACTATTGTGATGCTTACGGCTTCTGCTGCTGCTGCT
ATTGTTGATTCAGTATTAAGTAAAGTGAATGAGGATTTCACTTCTGCGGATTA
GACTACGCTGCTGCAATTCAGTAACTGATGCTTGAJAAATAAAGAAJAAATCATGTTTGT
ATTCGCGCTGCGGAGAAATGGAGCGGCTGCTGCTGCTCATTTTGTGTTTAACTCAAC
TATATATAGCTGATTAAACATAAGAAATGCGGCTGGAAGACTTTCAGACGCACTGCT
CAAGGCTGAACTTTATGCGGCTTGCTTGGTTACAAACCGATTGTTGATTCCTG
CCTGACGGCGGCTTCAAGGCTTTGTATACATAATGCTATTCACCGCTTGTGTCGCG
CAATCGCCCAATCACTGTTTCACTTGTGCTGCTTGGCGGCTTTCAGACGCTTTCGACT
CCCGGATTTCACTTGTGTCAGAAATCCCGGCAATATAGCGCGCTTCGCAATCA
TCTGCGCGGCTGCAATTAAGGCTTGTGCTGCTGCTGCTGCTGCTGCTGCGGAGT
TCGCGATCTCAAAGGAGTGAATGCTGACGACCGGCTAGTAAATCATAAACAACTCA
GCACACGAGCATGCTGCCAACAGGCGGTAGCTGATGCGGACATCGGAGAACTCGT
CGCGGGAATTCATGAACCAATGCCATATCAGCTATCCTTTGATTAAAGCAGCGGAC
GTGCAATCTGCGGCACTCGCATCCAAATCTGGGTAGTATTTTGTGCGCGGATTGAG
GAAGTTGATGCAACACCGCGGAGATGCGCACGACAAACCGCGCGCGCTGCGCACG
TGCTGCGCAATCGGCGCGGCAACCGCGCAATATCACTGCTGCGGCTTTCGCGGATTA
GATCGGCGGCTGCAATTAAGGCTTGTGCTGCTGCTGCTGCTGCTGCTGCGGAGT
GCGGATGCGGCGAAGCGGCTCATCCGCTTAACACCGCGCAATATCTGCGCAATCT
GTTGCGGATTTGAATGACCAATCTGCTTCAACGCGAAGCGCTGCGGAGTTGCGACG
TTGCTTTCGCGGCTAGTTGCGGCTAAGACTGCAATGCTTCTGCGGCAATTTGCGAAGG
CGCATGACGCGCGGCACTTTTTCGACGCGGCTGTCGACGCAAAAGTATCGGCATATG
CCGTTTGAAGCGCGGCACTTCCCTTTCGCGCGCGCATACAGCTTGTGTCGCGCAAGCAAC
CAACACCGCTGTCAGTACTCATCAACGATCAACACAGACACACCAATCAGGCGGG
ATCGCGGATTCAGTAAATTTCAATTCAGTAACTCAACAGCTGAGAAACCTAT
CAACATCAAGCTGCGCAACCGCTGCGCAACCGCTTAATCAATCAACCTGACG
GGCACTTAACTCGCTCAGGACTGGCTTGAJAAATGCGGCTTTCGCGCGGCTTGTGCT

-404-

[illegible]

Appendix A

-405-

TGGTCGTAATAATACAGCTTTCATCAAAATATTCTCGTCAACCTGTGCGTACCGCATACG
TTACACCCCGCGCCGCCGGAACAAGATTATCTTCGCGCTATGCACCGCTAAATAAATA
AGCTGTTACAAATAAAGCTGTTTATTCGGAACGGGAAGCCCATCATGACCGCCATCAGC
CCGATTCAAGACACGCAAGGCGGCATCTCGAAGAAATTCGGCGAATGTTTCGACAGCTAC
TGGCGCGCTCTGCGGGAACAAGATAAAACCTCATCGGTACCGATGGTTGTGGCGCAG
GAACATTACCCCGCGCATGCGCGCAGCGGTATGCGGAGCGCGTGGCGACCACTTCTCTC
GGCGGGCGCAATGGTTATGAACTCGAACCTGCGTCCGCGATGCGCGTGGCGGACCGCTG
TTTGGCACTGCGGCTGACGCTGCGGCACTGACCTATGTTGTTTCGGAAGCTGCGAC
ACTACCTGTGCGGAGCTGTCAAGGCTGTGGACGAATCGAGAACTCAACCACTTTCGCG
CGGTTGGACAGCTTGGCGACGCGGAAGAACGGCGCAGGAGCAGAACTATGCGGAAA
ATGCTGCTGGGAGTGGTACCGACATCCGCGTCTGTTAATCAAACTGGCGATGCGTACG
CGCACTCGCAATTTTAAGCAACGCGCGCGACGACCGGAAACCGCGCTGCCAATA
GAAACCTCGACATCTTGGCCCGCTGCCAACCGTTTGGGCGTGTGCGAGCTCAAAATGS
CAGCTCGAAGATTGGGCTTCGCGCATCAAAAGCCGGAATAACCGGAGATGCGGCTG
CTTTTGGACGAAACGCAACCGACGCTCGAATACATCAAAAGCTTCTCAACATCTG
CGCGGTAACTCAGAAATACATCTCATTTGCAAGTGGCGGCGCGCGCGCAACACAT
TACTCCATTTCAAAAAAATGGTGAAGAAAAAAGCTCAGCTTCGACGGCTCTTGACATC
CGCGCGCTGGGAATTCTGGTTGATACCGTCCCGGAGTGTACACACGCTGGGTATGCTG
CACAGCCTCTGGCAGCGCATTCGCGGCGAGTTCGACGACTACATCGCAATCCCAAGGC
AACGGCTATAAAGTTTGACACCGCTCATCTGCGCCGGAAGACAAAGCGGTGAAGTA
CAATCCGACCTTCGATATGCACCAATTCAACGAATTCGGTGTGCGCGCCACTGGGT
TACAAAGAGGGCGGCAAGGCGATTCCGCTACGAAAGCAAAATCGCTGGTGGCGCAA
CTTTGGATCTGGGCTGAGTATGGGGAACGGTGAAGAGCACTTGGCGGCGCTG
AAACCGAGCTTTTCAACGACCAATTAGTGTGTGACCGCGGCGGCAAACTCTCTTC
CTGCCACGGGCGGACCGCCATCGACTTCGCTACGCGCTCGACAGCAGCATCGGCGAC
CGTTGGCGCGGTGCGAAGCTCGAAGGGCAGATTGCGCGTGTCCACCGCTCGAAAC
GGACAGCGCTCGAAATCATTACCGCGAAGAGGGCATCTTCGCTCAACTGGCTTTAC
GAAGCTGGTCAATCAACAAAGCAATCGGCAAAATCGCGGCTACATCGCGACAA
AACCGCGACCGCTGGCGGAAGGCGCGGCTCAACTCGCAACACAGTTCGCAAACT
ACGCGCAACCTCGGCGGAGAGCTTTGCAAACTCGGCAAACTCGGCGGCTG
CTTCACTACCGCTCGGCAAGGCGAAATTTCCAAACCGGCTCAAAAGCGCTCGCG
ACGCTGAACGAACGCGCGCGCTACCGTCAAGCAACCACTCTGCAACAGTCCAA
ATCAAAAGGCGCGCAAAACGGCGTCTCATGCGCGGGAAGAGCGCTGATGACCAAG
CTTGGCAATGCTGCAACCGCGCGCGCGGAGCATATTATCGGCTGTGTTACCGCGAG
CGCGGCAATTTAGTGACACGCGAAACCTGCCCGCTTTCCAAACCTTGGCGAACGCG
CGCGAAAGAGTGTGGACGAAGCTGGCGGCTGCGAGGAGGACAGTATTCGCGCT
GATTCGAATGCTGACGCGCTGCGGCTTCAAGCTTCAAGCGCGCTG
CGCGCGCACTCAAGCTCAAGCTTACCGCTCGCAACCACTCGCGGCTGCAAGCGACG
ATGAGTTCACGCTCGAAGTCAACAGTCAACGACCTCCCGCGGCTCTGCGGACGCT
GGCGAGTCAAGGCGCTATTGAGCGTTACCGCGCTTTAAATCAAAATCGCGCTGAA
GCGGAATACCGCTCAGAGCGATTGTTGATTGCGCGGTTGCTATTTTTGTGCTAG
TCAATTAACAAATAATGATACAACTCAACTTGAAGTCAACCATGGCATACTCTG
CGGACTTAAGACAAGCTTTAACTATATGTTGATTACAAAAATCAGGACAGGCGAC
GAAGCGCGACAGCTACAAATGATGCGCAAGCGGAGCAACCGCTCTGTTAAAT
TAATCCATATATTAGCAATATCAAAACGCGCAAAACCGGAGCACTTTAACT
GTCAAGAACACACTTTACCTGTGGATTGCGCTTAAAAACCAACAGCGAGCTAAACAA
TCAAGTTACCGCTTAAATGCGCTCAATCGGATAGGCAAAACCGGCTCAATATGTTG
GCAACACCGAGTGCCTATCTGCATGAATGCCAACAATTGTTGATTGACGCGACCCAC
CGTTGCTATGCACTCAACAGATGGGGATAAGCGGCAAAAGACACCACTTACAA
GAACAGACCGCGCAAGATAACGATTTGACACAGCGCGCGCAATTTCTGACTAC
CAAGCGTTTATTTAGATGAACAGGATTGACCGGCACTGTTCCGCTGCTATGCGCG
ACGCTGAAGGCGGATGATGACAGGCAAGTGAAGGAAAGATGACGAGCTATT
CTGCTGTCCGCAAGTGGCAACCGCTGATGCTCCGATGTTTATCAAAATAGATG
ACCGAGTCTTTTGAAGCGTGGTTTACGAATGCTACTGCGCGATGACTCAAAATA
TCGGTGATTATTAGATATGACAGATTACCGCTATGGGTGCTTCAGCGAAATGGCG
GAATAATTTGGACATAAGGATTGCTCTTTCACCTTATCACTGAGCTCAACCGATT
GAGAGTTTGGCGAATATTAGCGGCTATTCGCAACCGTATGCTGATTAGCGCGGA
TTTACGATGAGCTGCTGCTATTGTTGTTATTTGAATATACATCTGATTGAATTTG
CACTTATTTAAATGCTTTTACGCTTATTTTAAAGGATGGAATGGAATGGAAT
ATGCTATCAATCCAAAGCAGCTGCATTTCCGAACGCGGTGAGGCTGCTTGGGAT
TTCATAACCGTTTCAGCTGCTTTATTCGCAATACCGTTTCCAAACCTAACCGCTCT
CTTTCACCAAGCGCAATAGCGCAGCATGAATTTATACGCTGTGAGCGAGTTCTGCT
CTGCTTGGCGACTTCTGCGCGCGCGTATTACTTCAGCGCGTGGGATGCGGAT
TGTGCGCGGCTTGGTGGATTTCAGTTTCAACAGCGCTGCTTCCAAACCGCTTCTGCG
CATGATTTCGTAAGCGCGCAACCGCTTCGTTATAGCTTCGCGTGGGATGCGGAGTTGA
TGTGCGCTCGGTGGGCTGAGTGTGCTTGGCGCGCTGAGTATGCTTGGCTGCT
GAGTTTGGCGCACTTCTCGCGGATTAAGAGCGCAATCAACTGATGCGCGAGCG
TCACTCCTTTGCGCGATAGTGGTATGATTATTCGCGAGATGAAGTGAAGGTTAT
TCTGATACCGCATGGGCAAGACGTTGGGATAGCGGCTGTTCTGTGCTGCGCGAGCG
CCTGTCCGCTGCTTTGACGGGCAAGCTGCTGCATCGGATTCATGATTGTTGATAAG
CAATGGCTGCCATTCATCCAGACTGTAACTGCTCAAGCTGGGAGATAGCTGCCAACA
GGTGGCGGCTATCTAGTCCGCTGATTGTTGCTATTCAGCTGGTGTAGTGGTCAACT
GTTTTCATAGTGTGCTTCAACCAATCGGCTGCTTGGCGAGGCAAGTGTG
AACCGGCTTTGGCAAGCTGCAATATCAGCGGTTGGAGGCTATTAAATGAATGCTG
GCGCTGCTTACCTGCTGGGCAAGCTCTTTTTCGCGCGCATGGCGGCAACGGTGT

Appendix A

-406-

CTCGGCTGAGTAAACGTTGAAATACCTTTGGCAACTTTCAACAGCAATTTCTCGGGTG
CCGCATCGAAAGCGTCTTTCTGCAGCGTGGGTATCGAACCTGCTTTGGCGGTAATTGTGGAA
ATTTGGCAGCGTCAAAATAGGTTTGTCCCACTCGACGCTCATCCCTGTGTTTTCGCGGG
TGGAGAAGAAATCGATGCGCGCTGGCGCTGGTAGCTGGCATTTGGCGGATACATGGGAAGGA
ATGCGGCTCTTGGCTGTTGTTGCGCTGCGCGACTCATCACGCTGTAATGGGACGCTT
GAAATACAGCGGAAATGTTGCTGCGCGCGCCGACATGCTTCAGGCAAGCTTAAAGCGGAA
CGATGGGGAAAGGATGATGGCGAAGTAAAGCTGAAACGGGTGAAGATATTTGGAA
AATAGGATTTCAAGCGGAAATAGCTCAATGTTGCAAAATGGGCTCGAGTCAGCGGAA
CGGAATACCGTAATCTGCATATATCATAGATTAGCAATGTTCATCCGGCAATGGTT
CAGGCAGTCTGCATGTCCGAACCGCGGGAATAACAAATGCCAGTAGCGATCGGCTATCG
CTCCCTAAGAGCTTTGCTCCAAATTTGGTTTGCAGCGGGCTTAACAGATAATCCAGCACCG
CCGTTTACCCGTTTAAATCTCGCGCGTGACATTCATCGCCGCGGTGAGATTTCACTGTT
GCGCTCAATATTCAGGATGTTTGTCTCAGCGACACCGCGGCTATATAACCAAGGCCAA
CTGTTCTGGTGGTTAGCGCATCATGGCTTTTCACTTTGCCGTCGCGTCAGATACCGGTA
CGCGCTATAGGGAAGCTCTCAATCTTCACACCGCATCGTCTCCCTCTCACAAJACC
GATGCTCTTGTTCATACCAAACCTTCACGCTCCATTTGTGCGTCATCGGGCGAATCAC
CATCATTTTTTGGGAGCGCTGCACACCGCGCCACGCTATAGGTAGCCAAATCTCTGCAC
CGTGCCGTCGCGAGGCGACTGTATGTATCAGCTGCTGCGCGCTGCTTTGCCTTATCCGT
TTGGCGCGGATATGGTCAATCTGTGCTTTGCTGCGCGAGGGCATCGACGATATCGG
TTTCAGGTTCTGGATTCAGCACCGGATTTGCTGCTCGCGCTGTGCAATGCGCGCTGAAT
CTGCTCATCTCAGCGCGGGTACTTTCCAAATCGTTTCCAAATGCTGACCGATTTGCTGTG
CTGCTCAAAACGCTATGTTCCGAATAAATTTCTGCGCGCGAAGCGGATGATGCTG
TGTTTTCTGCTGCTGATCGCGCCACCGAAACGAGCTTGCTGCTCTCGGCTTTGGCGA
CTGCAATTCGCGCTGATGCGCGCGCAAGCGGACTGCAATTTGCGCATCTCGCGCGGCCA
TGCTGTATCTGCTGCTGCGCGCAACACTGCGCGGATTTGACATCGGATCGGAAGACC
TAAAGACCGTCTTGGCGCATATGATATGCGGCGACGGTACGGCTTTCCAAATGCGCGCAA
TACGGCTCTATACGCAATTTGGACAATTTGGGACGCTCGAAGGCTGCTCCGACTGCAC
CACATCGCTGCTGTTTCCCAACGCGCTCAAGTTTCGCGAGCGTTTCTCCGTTTTCACATG
CTGCGGCTGCGGCAATGTCGCGCTTTGCGCGAGCGCTGCTGCGCGGCTGGTGGTTGTT
CTGCGCGCGCGGCAATGCTTTGCGGAGCGCGCGCAATATGCTATTTGGCGAA
CCAGGACCAACAAAGGCGCAAGCGGCAATGCAATTAATAAGCGCGCGCAATTTGCG
AGCGGACGAGACCGCGGATATCGGTGAGTTCCAAATGCGCGGCGAAAGCGCTGTTCTC
CGCGCTGCTTTGGCGGCTTTCACTGCTGCGCGACCGCCCAACATTTGCGGCAATACAT
AATGTATCGAGAAAGAGGATTTGAGGCGGGAAGAAACATACCGGATATACCTTTGCG
AATATAGAAACAGGAACATATATAATATGTAAAGGAATTTTAAAGGAAAGCGCGGCGAGC
TGTTAAAGGAAAGCGGGAATCATGACAAATAATCCAGCTGCTTACAATATTCATTA
TTTTACTGCTATGATGCTGCTGAGCGGCTTTGAGTGGCGAGGCTGCTGCTGCTGCT
AGAAACGACCTGCAATTTAAACCAAGGACCAACCATGTTTACCAAAAGCATTTTAGC
CCATTTCTAGAAGGTTTGGCCATGCTATTCTCAATCGGCTATTGGGGACCATGCTGCT
GTTGCTTTGGTTTCTGCTCGGCTTTGCTCTATAAAAGGCCAAACGGAACCCCGCAAAAT
CCTTTGAGGCGGCTGACGCGCGCGCTATCTGCTGATGCTTTGTTTGGATTTATTCCTAA
ACAATTCGCGCGGATCAAGAAAGAAATACAGGACAAAGAGGTGGGACGAAATACAA
AGAAGCCGAGGCGTGTTTTACGAACATGCAAAACGCGCGGGGAAGATTTTACAGAGCG
GCGGCAATGCTGGAAGGATATGCTTTGAGGATGATACCTGAGCTATCGGTCGCGA
GATGCAAAACAGAGACCGGATGTGGGCAATGCGGCTTACAGACCAAGGAAGCGGTA
AATTTTATGCTGTTTCTAGGATTTTATAGGATGGGGAATACCGCTATGTTGATGCTC
CTGCAACCAACCATTCGGATATTTATTCGGTATTCAGGTAAAGATTTTTCGCTAAATCA
AATATTTAATCATATACCCCGCGCTTATGCGGTAACGTTCGAAACAAATGTCGATTC
CAAGCTGCGGAGGAC TGGGTGGCAGGTGGGACATACGGATTTACGACGCCAAACTGA
CGAAGTATGCGCAAGAAACCATATGCTTTTGAAGAAAGGCTTGAAGCGGCGGCGGTG
GCGGAGATGCGCTGGAGGTTGTGATCTTGTGCAATAAGGAAGGCTTACTCTTGAGA
CGGTTATGGGATGATGCTTATAGGTTTAAAGGCTATATTTGGTGGCTATAT
TGCTGCCATAGAAGGAGCATATTAACAAAATTAAGCTCTTCTATCTTACAAATGA
GGGCTTTTGTGCGGCTTTTGGAGATTCGACCAATGGAAGATAGCAAGGATGACAA
AGGCGGTTGCGGCGGTGATGACGAGCGCTAGCGGAGCGGCAAGGAGGACCAACCGCT
CAATCTTCCCGCTTATCTAACAGGGGGGACAGAAACGGAACGCGAGCGGCTTCA
GGAAGTCTTGGAATGTTACGAACGTCATACAGCGGCTAAAGCAACCTGTTAGGGGT
TCTGTTGCGGCGGCTGATCGATGCTGCGCTTTCTGTGATCAATTAAGCTTTTCAATTTCA
TGAAATACCTTTGATATGCGGCTTAAAGGCTATTTGGAAGGATGAGGAT
TATTCGCGCGGCTCCATGCTCGCGGAAGGTTTCTGCTTCTGATCTACAAAGAAC
CAAAGGTTGCGGCGGCTGTTCTATGAGCGCTGTTGGTATGGGTTGGAAGACGCGCT
ATACGGTCTGCTCAATTTGGCGGCCAACAAATACCATTTTTCGAACTGACCGGAC
CGGTGCGGCGTGCAGAAAGAGGCTGGGAATACGAGCTTTTCGCTTCTGACTAATGC
AATCGCGCCAAATATCACGCGTTGACATGCGCAAGAGCTTTTTCAGCGCGGATACAG
CCGGAACCAAGCGCTGACAGCGCAATTAAGGATTTGTTACCTGTCATCGCTCAACAC
AAAGCGCAATGTTGACGAGTGGGAAGAGCATTAAGCAATGAGCAATGACCAAGG
CAAGACCTATGCTATCGCTCCGCTGAATGCTCCAAATATGCTCCGCGCTATGAAGAAAG
CAAGCAGTTGGCGGATTAACCAAGCATGAGCGGATTTGAAATGAATTAAGCAAA
AGACATCGTTATCGGTTTCAAGATTTTGCAGAAATCCGGCGGAATTTTCGCGGGCGATA
TCCGATTTCGAACGATTGCGCAAAGGCAACGCGCATACACGCGGTAAGGAAGATAA
GGGCTATTGACGCGCGCTGATCTGAATGGGTAAGAAAGCTTTCGCGGCTGCGCGAAA
CGCTCTGAAGATTTTTCGCAATTTGCAAGTAAAGCAACCTGTTGAAGCTGTTGAGCG
GAGTCATCAAGATGACCAAGCTTTTGGTTCGCGAGCTAGCGCTTTGTTGGA
AGCTCAAGCGATTCTAAGAGACCGGCTTCAACGCTCAAGAGCCCTTACTATATCTA
CGAATATTACAGGATCTTGAAGAAACAGCTTGAACAGCAAAACAGCTCAACATGAAGA

Appendix A

-407-

AAGCTATAACAACTTCATTACGACAATTCGCAAGACTACGGATTTCATGGCGTTAAAG
 TGTCTGCCCGAAAGACGCTTTAATCAACAAGGAAACAAAAATGAACATCCAACTCCAA
 GGCCACATCGTCGGCGTTTAAAAAATCAACGGCAAAATCGAAGGCAAGAGCTTCGACTAT
 TGCTGCTGATTGTGCCCAACACCTTTAGACAGCTCCCAAGGCAACGCATTGGCGAGCTCT
 ACTACTGAATACGATTTCGGCGGCTCTGCCAATTTGCGAGAGTTCCGAAAGGCCCAATTT
 CGGATCGAAGCAAACTTGACCTAGAAATCGTCACTACGGCGAAACCCAAAACTGAAA
 GTCATCGGTTTTCACTGCGAAGAGGCTGATTGAATCGCAAGCTGATGTTCTCCA
 TCGCGTATCAACAGGGAGCTCTGTACTCTCTCTCTGCTGAAAGGCGAGCACTGCGACATC
 CAAATTAATCACCAAATCGCGATTATTCTACGACTCGAAGAGCGAATTAACGCGAGTTT
 GGAGGAATCCGCGAACCAATACGAATTTGTGCTATTTCGGATTTTGAAGACTGATTTC
 GGATGTTCTGGCGGCTCGCTGAAAAACGCTCCATCCAATTACCGCCAAACACTTTTGAAGG
 AAAATATCATGAATAATTTAATACACCTCGCGTAATACGCGGCAAACTGGCTGTTGTAA
 CAGCTGCTCCCTCGCTTTGGCGCGCAGATGCAATGCAACGTTGGCCGATACGGCAAAAA
 ACCCTTTGGAGAGCGCAAAAGCGGAGCGGATGGAGCGCTGGTAATGATAGTGGCATTT
 TCGCCGCGCTTTTGATTTTCCATCGTTAAGAGAGTGAATGAGTAAGAGGCGATGTACT
 ACCAAGTCGGAATAAATGTCTTGAAGAGCACCAGGCTGAAACCTTTATTACGCTTGG
 TAGTACCAAGAAATCAAGAAAAACGGACAGATTGTGAGCGCGGAATTAACGCGAGCTGT
 GGAAGATCTCGGACGGTCAGCGCTTAAGGCTTTTATTGGCGGAATGCACTCCGAAAGACA
 ACGTCGAAAGCGGCTTGAACACAGCTGGATAGTATTCCGCGATCCTCGCTCCGTTTACT
 TGTTCCTCGCTCGAAAAAGGTTTGAATGATGGATTTTTATTTTATCTCGGCGTTGTC
 CGTACCGGCTATTATTCGGGCGGCTTCTGTTTGAAGATTGAGCGCATGAAGTATGGTGTC
 AAAATCAGGCTTTTACTTACACTTTGAGCTCTGACACATGAATTAATAAAGAGCTGAC
 TTTTCTATATACAAATCTGATTATGATAAATTCGAGAACTTATCTCTGATAGGCT
 CTTTCTTATGTGTTTATGTTATTTGAAGAAACCTGGTCTATTGAATAATTCCTCAATG
 GATAAATGCTCATAMTTTTTAAATGAATAAATTTAATGAATCTTGCTTTGAAATTAAT
 TTCAGGATGATTCATTTTTCATATTGGCAATGAAAAATTTGATGTTTCGGATTCTAAT
 AATTTCTTTTCTGTTCTCTTTGATGCTTAACTCTTTTCAGCAGATTGAATAATTAATAA
 TGGAAATTTGATGATGCACTTTTCGAGAAATTAATAGCATATGAGTTTAAAGGATACAA
 ACTTTACGTAATGATCATACAGATTTGATGATGATGATGATGATGATGATGATGATGAT
 GAATTTGAATGTTATGAAGACTTCAACAGCGCGACGCTCTCTTGAATAAGTCCCGGTAA
 AGTAACCTGCATCGTTTCCCGCGCGCGCTCTTGTGAGGATGCGGAATCTTCCGCGCT
 AGGCGCGAATTAAGCACAAAGGCGATCTCTTATGTCGGAACAGCCCTTTTAGCCCATGA
 CGTATCGAAACCTTTCAAGAAAGCATACAGGCAAGCTTACCAATACGACCGCGAAAC
 CGCAAAATTTGTAAGAGGCTACGATATGATTAATGCTCTTGTACGAAAGCAAAAGGCG
 TATTAATAGACACTTGGCTGCTACGGGCTTGACGATTGATTTAGGCGCTTATGTCGGA
 TGCACGAGATTTGAGGATCAAGATTAATAGCATATGATGATGATGATGATGATGATGAT
 CGCTTTTGAATTTGGCAAAAGAGCTGATTAATTAAGTTCTTTCGATTGGATTAAT
 TTTGTTTAAATCGTTCGACATTTAATTTGGAATGGGAGATTGTTGCTCAATAAAGG
 TCATGATTTCAGAAATGGGCGTATTTCCTCTTATCGCAATCAAAATACAAAGGA
 AATGGATGCCAAAAGCTGGAAGAGATTTTATCGTTGAAAGTCGATGCGCAATCCGACAA
 ATACATAAAGGCAACCGGTTATCCCGGTTATTCCGAAAGTAGAGATGCAACCGGAAAC
 AAAAGTGAATGAGGTCGGCTCAGCGACGGAAGGGAATCCGTTTCAGGTTGTGCAAC
 ATTCCGAGGAGTTCCGACAGCAACACACCGGTTGATGTTCAAGTAATCCCGGTCGCGA
 CTTAACCOCGGAACCGGGAAGTCAAGACGACAGCGGTCGCGCGAATGATCCGCGG
 CGAAACCCCGCAACACCGCAACCCCAATGAGAACCOCGCGACGCGCCAAATCCGGA
 ACCGACCCCGATTGAATCCGATCGCAAAATCCGATACGCGGAGCGAGCCCGGCAAG
 ACCGATTCCCGCGCTTTCGGACCGCCCAACCGTAGGCATCGCAAGAAAGGAAGA
 AGGCGAAGACGCGGGCTTTTGTGCGATTATTTCCGGAATCTCGAGCTGTGAGGAT
 GGGCAAACTTCAGCGGCGATGTTACGATATAAGCATACCGAGGTTATAGACGATAA
 AGCATGGCTTCACATAAATTTTACCGCTTAACGGGATGTTCCGAGCGGAAAAACCTT
 TCATGTTTCCGCGGCGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 AATCCGTTTTCGCGTACTGCTGGCTTTTATCATTAATGTCGGCTTTTGCTGTTTCGCT
 GTTGAAGGGGAAATAATGCCATTACTTCCGCGTGTGATCCACTTTTAGGCATCTCTCT
 GAAATGCTGATTGTCAGAAATATCTTTCGAACAGCTGACATTGTAACCTATGCCCG
 GTATCTCATCGCGCTGAAAGATTCAAGACTACACGTCARAATGCGCATCAATCCATGCC
 TTCGACATACTGAACCTCTTTTAAATTCGGGATTGCGTCAAGGTTGGCGTACCTGTT
 CGCGCGATTCTGCTGTTTATGTTGATGACGCAATTAAAAAACTGACGTTTGTGTTTTC
 AAGATGAGGTAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CGCGCTGCTCTCTGATTTGCAATGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGGACAGAGGTAGACAGACGCTTATTCTGCGCATATCGACGAGTTGATTAACGCGCA
 GTTTAAGGCCCAAGACTGACGGAAGAGCAAAATCATTCGCGCCCGCTTCTGATGTCAT
 ACGGGAAGGCGAGTGTGATTGTTGACGAGCGCATACACTTATCCGTTACGCGCGGCG
 AGGCGCTCCGTTCCGCGTTATATTACGAGACTGACGAGATCCGCGCATACGCGGATAC
 CGTTATTTGATGACGCGACCCGAGCGCACTTGAATATTTGTCGCGCACTGTTGTTTC
 AAGCATGTTACACTTGAACCGGAGCAATCGGATGAAATGAAACGATATTGTTGATTAAG
 CTAAGCTCTGCTGATTTGCAATGAGCGGCTGAGCGGCTGAGAAATGCAAGTTGGAAGC
 GCGCAAGAGGCTTAAATACTATAATACGACCGGACGACCAAAAGTTCAAGAAAAA
 AGTACCTTGGGCGGTTTGGCGGTTGATTGCGATTGAGGTTTGTAGGCTGAAAAAGTTA
 CGGCAATTTTAAAGTTTACAGCAAGCCACAGACCGGATTGAGCGAGGAGCGCAAA
 AGAAGAGGTTTGCAGACGATGACGAGGAGCGCTGCAATCATCAGAGGAAATGCCTTTAA
 AATCTCAGACAAATTTGAACCTCGAAGCTTTGTGCGACTTTACCGGAAGGCCGGAAG
 CAGGCTATTATTAACACACTCGCAAGTAAACACTCTTGAAGCAATCGCGGATGAT
 AGGCGCGGAATGAGTACGATGCTTATTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 AAGCAAGATATGCTAAGAAATATGCAAAACCGGCTGCTCTTCAATCCTTATAGGA
 CGAACAGCAAGGACGCAACCTGGACAGTCCGCGAAGCGGACAGACCGCAAGTTCT

Appendix A

-408-

CGTAATGGGCGGAAGCGGTAGCAAAATCTCATGTACGCAACTGAAAGCGCGGAAAAC
 CGTTTGAAGGAATTTGGCGGGAGTCTGAAGAAGCAAAAGTCAATCCCTACCCCTCAGGA
 TGGCTTGAGCTGAGTGAAGGGGGTTAATGCTAGAATGGCTGTTTTTTTAAAGTGCTC
 AGCTCGGAATCGCTTCGTTGGGGGTTGTAGTGCAGGAAAATAGGCGAGAAAAGGAA
 AAGGGGGAAGCTTTGTAAAGATTTGGCGCGCTTTTACCCAATCTTTATGAATACCCCT
 TTTCTTTTATGAGCTGTTTTCAATACCGGAAAACCCCGACGAGGAGTGATTCAGAC
 TAGATAGCCCTCTGATACGATCTGAGAGTACGAGAAACCTTACCAAAAGCT
 GCGACCCCAATAAATCAGATAGCGCAAAAGGCGATAGCTTCAAGCCCTGATGAGTAAA
 TCAGGCCATTTGAGGGCTTTGGCGTTTGACGAACACCAAGTAAAGCCCGACGATTCGAAAG
 TACGGCCAAAGCGTACAGCTTTGTAAGAAATAGAGAGCGTGGGCTTTGTACATCTTAAG
 TTTGAACACTATCTAGGGCAAAAGCCGGAATTAATAGGTTAAACCATGTACTTAGGAA
 TAGACGTTTCAAGCTCACAATAGATTGCTGTTGATTTGTAGAGCGTCAAAATATCAAA
 AGAGTTTCAGACACACAAGGAGGATTTGAACATTAATAATTTGGCTACAAAGTCATA
 AAGTAACGATAGACTCAATTCGCTTCGGAAGCAACAGCCATCTAGAGCAATAG
 CGGAATCTTTTTCGAAAGTATCAATTTACCTAGAGAAATCCAGAAAGATAAAGAGAT
 ATGCGATAGCAGAACTACACGATCAAAACAGATACACAAAGCCGCAAGTTGATAGCCC
 AATATTGCCAAGACCGAAAGCCACAATTAAGAGCATGMAACCGCCGACAAAAGAACAGA
 AGCAATTACAGGAAATCGCCGATATTTAGACTATCTGAACAGCAACGCGCAACAGAAA
 AAGCTAAACACACGAAGCACCCTGACTATCAATCAATCCCATATTCAAACACTATTTCAA
 ACCTGACAGCAAAATACAGATAGTCAAAAGCAATTTACTCCAGTCTACAAAGCAATCT
 CAGGTTATACACATCTACGCAAAAGGCTGAAAACGATACAGGCGATAGGCGAGGACGGA
 CAGGATATTCTATCACTCTATAAGATGATTTGATTTTAAATCGAGAGCTCAGCG
 CTTATCTAGGCGTAGCCCTAGAAAATTTCAATCAGGACAAAGCGGTGAACGGAAAAGCA
 GAATATCAAAAATAGGAAGTTGGGAATAAGGAAAAGCTTTATATGCTGCATCTTTTG
 CATATCGTTGTAATGCCCTCCCTGAATTTGTAGGCGCTCTGAAAAATAAGGGAGGACATA
 TAAATTTGATATTAATTGCCATCATGCGGAAACTGGCGGTAAATAGGCTTTACGATTTTGC
 AAACCGCCCAAGATTTCCAGTGGGAAGTATAAATAAAATTTAAACTGGGCTTTTGCC
 GGTGATTTTCAATTTATGAAAATAAGGTATAAATTAACATCAAACTCATCAAAAG
 AACAACACTCTGCAATGAGGAGTGAATGATTTGATTTCAAGAGTAATAGGTT
 ATTTGACCGTGAATAACATATCTTTTTTCAACAACGACACACAGCAATGACAAAG
 CAACCCACCGCCACCCATCTGCGGAGTACGGCGGACAAACCCACATCCGAAGCGGGG
 GGGATACCAACCTCAAGAGTGTGCTGACTTATCGGATAGGCATACAGGACAGCCCAAC
 TACAACTCTGACGACTATTTGGTGGAAACCGATTAATCACTGACCCCAAAJTTGGACAGTT
 TAATCAAGCGGCTTTACGGGATTAATCTGTCTGATGAACGGGCTCAGTCCTTTTAAATTT
 CACTAGGCTCTATGCTGTTGTAGTACAGGATATATTGTCGAGTACAGCTTCCAAATTT
 GTTAACGAGTATATATAGGAGTGAAGCAATTCGATTTCAAGCTTTGAGGTTTAAAC
 TTCCATTTGGCGGCTTCCAGGAGTTTCCCTTGGGGGACACTCTGAACACAGCGGTT
 GTCCTTCAACTGCTTTGATAAATATAGGATATGCGGTTTCAATGCGCATTTTGTG
 TTCTGCCGATTGACCAACCAATTTGTAATAGAGGTTGCCGCTGGGACGCGCAACTCAC
 CAACGACAGTTTCAACGAGTGGCATTTGCCTTAACTCTGCGAGGTTGCTTTCTTCAACC
 GCACCTTTCTCCATAGATTAAAGCATCGAGCTTTTTTAGGCGAGCACTTCGCGTTTAA
 GCGAAGCCCAATTCGCAAGCAATCTTCCCTTGTTTTCAGATAGTGGGCTTTTGTTTCT
 CGGCGGATGCTGTTTTTTTACGGGCTTTCTCTTTTGGGTTTAGGCTTTGGGCTTTAAAC
 CTTATATACATTTCAATGTTAGAGCGCAACCATTTGAGCAACAGTACGAGTCTGGGCA
 AATTCAGTTGGTCTCGGCGAGCTTTTGGGACATTCCTACCCCGGACAGCGGAGTGS
 CCTCAAGTTTGTATTCGACCGAATATTTTGCTGATGCTTTCTACGTTTGTATGCCACTCT
 CTCCTGTAACTCTGATTTTGTCAACCATCTGCGTACCAATGAATCGGAATAGAAAGAT
 GGTCTGCTTTCCTGCCAAATAGATTGACGACGCGCAAGTCGGAAATCATCTGAATAT
 TTTGCCATAAAAACTGCACCCCTAAAGTCGGTAAAGTGCTTCCAATTTTGGGATCGAGT
 TCAGAGCGGCTTTTTTTTGGCTGCGGTTTGAATCACTCCCTCGTGATATTCCTTGTA
 CGAATAAATATATATAGGAGTACCAATGATTAAGGCTTATCCGCGCCCTATGCTC
 CTAAAGCAAAAGAGTAGAAACAGCTATCGCGTCCCTGCGGTTGAATTTTTCGAAAAC
 CGGCGTAAACAGCATCAACATATAAGAACAGCAACAATAGCATCATATCATCAGGCA
 ACGAAAATCGGAATAATGCACTTAATGGTGTGGATATCTGTGTTTGTGCTGTTAG
 TAATCTCTTCTGTGTTTACAGTTTAGCAGTTGTACAGTTTACAGTAAATGTTTAAAC
 AATGACTGATTTATTTTAAATCGAGATATTTAGAGAGTAAAAATGCGCAAGTCCCTTTC
 AGTACATTTTGAATTTTGAAGCGCTCTCTCATTTCCCGCGGAGATCGGAATGCGA
 CGGCTACTCTGGCTGAGATAGGATTTGAGACATTCAGAGCAAGTCTTATACTAGGGGCT
 AAGGATCAGTGGAACACCGGACAAATAGCACTTACGATGAGCTGAGCGCTGTTTGAAT
 GGTTTACTCCTGATTTTCAACATTAAGTTTAAACGCTTGAAGAGTATTTGAACGAC
 AATTTATCGCTGAGTGTGTATCAAGCAAAAGGCTTTCTTCAAGCTTTGAACAC
 TTCGTATCTCCCTAACGAGGCTGGAATGTCTGATGAGCAAAATCAATGAGTTCTGGA
 AACGAAATTTGAATTTGGAAGTCTCAACCTGAATTAATTAACCTCTTACTACCA
 ACATCGCGCGAGCTCTGTGAGTTTGGCGCGCTGCGCGGATTTCTGTGCGTTTGAAG
 CTCTGGGTGGGTTGAATACCTCACTCGAAGTTTACTTAAGTCTATCTAACTATCTC
 AAGCAATATTAAGGCGCAAGGAGTGAAGGAGTGAAGGATTAATTAAGTCTGGA
 TAAACCTGGGAGGATCTCGGACTTCCCGCGCTTGGTGAACACTGCGCAACCGGAT
 GCGCTCTGAACGCTCAACAGGAGCAAAATATGCTGTCTCAATCGAATCGACTCACCC

Appendix A

-409-

TGGCAGCTAATGGTTTACGTAACCTTAGGTTACTGGATTACGCACTAAGGTTTACTGAAC
 TTAAGCATATCGCGGCGCAAAATACCGCTGCCATTGCCGATCTCGCTGGGGAAATGAGAA
 GGCTCGCTAATAAATCAAAAATGTTACTGAAAGGAGCTTGGCCATTTTATCTCTACAA
 TATCTGCATTTAAAAATAATCAGCTATTGTTTAAACATTACTATAAAACTGTACAACTGC
 TAAACTGTAAACACAGAAAGAGAAATTACTAACGACAAACCAACAGATATCCAAACAC
 CATTAAGTGCATTTATTCGATTTTCGTGGCTGATGTTATGATCGTATTTGTCTGCTGTC
 TTATATATGTTGATGCTGGTTCAGTCCGGCTTTTCGGAAAAATCAACCGGCAAGGAGTC
 GATACGCTGTTTATCTTTAGGAGAGTAGGAGGGGCGATGACGACTTAGTT
 TGGTATCCGTAATATCATCTTTTTCGTCAAGGAGATATATCGACTCTAGAAAGTAG
 GTATTAGATACTGCCTTTCTTACAAGAGTGATGGTAGTGGTCTCTTCAAGTCAATC
 AAACAGGAAAGATTTCCTTTCTGTCTGAAGATTGAAAGAGGACTGGAATGTTTACAAG
 GTTAAAACTGGGGAJAAAGATGATATGTTTCAGATGAATGCTGAGCGTACCCCGTGTC
 TATTTGAAATGATGTCGGCGAAACGGGATCCCTACTCCAGTATTCCTTAATTTCTA
 AGCAGAAAGACTCTTCGTGGTGGCTTTTGTGTTGGTTGGATGGATGGAATCAACTGTA
 CACTGTTTAGACATAAAACGAGCAAGAGTTAAAAAGAAAGACGATCTTTTGGATT
 TTAGATATACCGATTACCTTCTCTCAAAATTTGTTTAATTTATTTAGTGCATATTA
 ATATAAACGAGATTAATGATGAGAAATCAAAAAGGCTAATGAATATATTTGTACAA
 AATATTTGCAGTATTTAAAAATGTTGGTTCTGATATGAAGATTTAAAAATGCCAAAATGT
 ACAGTTGCTAJACTGTAAACCTGCTAAGCAACAAACATAAAAGGAATGCAAGGATGC
 GATCACTACATCTTTTATTCGGAAGCGTTTATGATTTTACGGTCAACTGCTACTCTATG
 TGCTAGCTTTTCACTCCCTATTTTCAAGATATGAGGAGGCACTTTCATCAGTGTGCT
 AATGCGCAACAAACTCTCAACAACTATTTGGTCTTGTGGCAGCAACCATATCCGTT
 TTTCAAGCGCACTTACCTGTAACATGTTGGTAACTGTTTCTTATCTTATCTGCAATTA
 TATGAATCCCATTTTATGCTGCACTCTTCCAGCATATGCAAGTAGGAGTGAAGCA
 CTAATCTCTGTTGGATGTTTGTGACTTTAATCTGTATGCACGTAGGTGTAGCAGATTCA
 ATTTTGTATACAGATTATCCGGCTTTTGTTCGGCAATCTGTTTGGCAAGCTATAGTAGA
 GCTGTGCTGTGCACTTTCAATTTTCGGTAGGATTTTACCAATCAATGCTAGCGGCT
 CGGTACGTTTGAGCCAAATGTTATCTTGCCATTGTACCAATTTGTTTACATTAGGC
 TGTGTTTAGTATCTATGATTCAATTTTTCAGAGGAAAGACAACTATTTTCGGG
 TTGGAAATAGATCTGATGAACTTTAAGCAATATGCGCGCTCTACAGCGATCT
 TAAACACACGCTCTTTTAAATATGTTAGACCAATCTTCCCTATTATATGAAGGTGATGC
 TTTCTTCAGATTGCTATTTAATGCTTTCTATTCTATAAAAATGACTGAATAGCTC
 AATATAAAAAATTTGCGGATTTTGGTATTTATCATGAATAATTCAGACCTCCGGAATT
 TACCCTGTGCAACAGGAATATATGCGCATCTCACTGAAGAAAGACGCAAAATGCCAA
 GCTGCTGAATCTTCGCGAACAATCTGATATAGACATTTCCGATTTTTCTACTGAAT
 CAAGATTATTCAGAAATTTCCGTCAGATGAAATGGAACCTCACTCATCTGGAGCAA
 ATTCGCGGCTATGATGAGAGTACGCGCAATGCGCGCTCTACAGCGCTGAGCGCGG
 CAARAAATCAAAAACCAATTTGATTTCCCTTTGACATCAGTTTGGTCTGCAATTCG
 CGACTCTTTCAGGCGAGCGCTCATTTGATTGACAAAGCTCGCGGAGTGTATCGGAC
 GTCTAGCTTTGGTGGCTTCGCGAGAAGCGAGCAAAACAGATTCTTCTCAAGTCTCTGAT
 TATGAGGAAGCGATTACATCCGCCAATCGGAAGGTGCGGCTACACGCGTAAAGTGGC
 CAAGGATATGCTCAATCTGCAGCTAAACCAAAACAAAGACGAATCATGATAGTGA
 CAATCATCTGATGAAAAAAGCGGTAGAAATGAAGAAATACGCGGTAAAGTGTGAAT
 GATTTTGGATTTCACCGCATGCTGCTACAGTAAAGCTATGAAGAACGCGACCGCGG
 ACAATTCAGCGAGGATGAGATTTTATCCGCCATATCAATGCTACAGCGCTATGCA
 ACCACCGCGCAGCAGCGGTCTATACGCTGATGGAAGAGTGTGTGGCTTCCCAATAA
 TACCTATGACCGCGTGGAATAACGTTTATCATCCGCTTTCGCAAGCTATTATCTTGCA
 TTTCTCATCCGCTACATCCACCAATTTGGTGATGGCAACGGGCGGACGCGGGGCTTT
 GTTCTATTGGTTTATGCTCAAAAACGGCTACTGGCTATTGAAATACATATCCATACGCG
 TCTCTGAAAAACGCTCTCGCCCAATACGCCAAATCTATTGTTATGCGGAACCTGAGCA
 TTTAGATTAACTATTTCATCTATACCAATGCGATATATCAAGCGCGGTTTGGCGA
 TTTGGGCACTACATCAACCAACAAACAGAAACAGAGATATGCAAGAGCAATGCG
 CCAATATCTGAAGAAGTAGGAAGTTGAACCAACGCGCAATTTGGTATCTCCGAAAACG
 AGTGGGAAGAAGCGAAAAATCTTCTGCAACAAGAAATGGCAACCAATACGCGCATCTC
 CTTGAATATGCCCGTAGGATTTGAGTAACTGGGGAATATAGATTCTAGTGGCGTT
 CAATACAGGAATGCTTTAGAGTATGTGCTCCTCAGGATTTATTGGAAGGTGAGAAA
 AATATAGTTTGCAGCGAGAAATGCGAGCTTTAAACGAGTCAAAATCAATACGTCGCGAC
 CTTCBAAAAGAGCTGCGGACTGCTGTTTTCGCTTCAAAATGATCTTTAGTATGAT
 TTACAGAGATTATAGCAATTTTCTCTCCAAACAGAGGTTTGAAGAAATGCAATCT
 TTATATTTGGCTGTGTTTATATGATGTTTGTAGAGGCTTTGGCTTTAGGTATTCA
 ACAGGATAGGTTTATCTTCAACCGGAAATAATTTGCTTTTCCCTGCAAGTAAATGA
 TCAACAGATTACTAAACACAGCGCTCATATTATGGGGTGACTATCTGTAATAATGTC
 CTAAGACGTGGAACACACTTTTGTCTGCTAATAATTAAGGAATCTTATGTTACATATA
 CCCCCTCAACGGAACCTGTTCGATATGTTAGGACATTTGTAGCTTAAACGTGACATAGTCC
 TAAAGGTCACGCGACTGCGCATGCTGCTGTTTTCGCTTCAAAATGATCTTTAGTATGAT
 ATTTTATATTAGCGTAAATCAAGCAAGAAATCAACATCTTATTTTGGTATATAGG
 CATATGGAAGTACGCTGACGCAATGAAATGCTTAAACGCAAGTCTTGAAGAACTG
 TTGGCTCGCAGATCACCCCGGCTTGGGTGAGTATCTTACACAGAGTGTACAAAC
 TGCTCAATCGGTGGGTGATTTAGATGATTGGTTTCAAGCGATGAAGCAAGCAATCT
 AGTTTATGACTTACTTAAACAAATCGAACCGCACTTGAATCTCAAGATGGGAGAAATTT
 ACAGCTATGGAACGCAAAACCAATATGTTAATGCTACCGGAACGAGATAAAGGCAAC
 GAGAAGCGGATTACTGAATTTTCTATCCGAATACGCGATGTAATTAATCAAGAGATG
 TGTCTAAAGTACGCTGTCCTCGGTTTGAAGAAATTTTATGATGTAAGTCTATCTGAC
 CGTATCGGAACCGAGATCACTTAAACCGCAAGATGTTAGGATGTTGGGCAAGCG
 TGAAGATACGCTACTTTGAAAGGGGGCCATGATATCGGTTGCTATACGCAATCCCA

Appendix A

-410-

TTCTTCGGTGGCTGGGCTCATATATCAAGACAGAAGCATATATATCAGACAATAT
GCCGCATATCTTTGCACAGTATTTTCCGGAGGGCTTTTGGATGCGACACATCACAAGCAA
ATATGCTTTTCATGATGCGCTTTTGAAGACATAGATGCTGGCGTTTGGCAATCTGTG
CAGAGAGACTTTGGGTGGATCATGATGCGCGTGTAAAGACCGCTTTTAAATGAATGGAT
TGACGGGTGGAGATGAATAATCAAGATATTGACTGACAGCGGATTTGCTGGGCATAAA
TGCCCGACAGGTTTTCAGCAATATATGGCAGAAATTCCTCATACAGCGCGCTTTCGTGAC
TGATCCGGGATACAGCAGAAGATGCTTTAGTATGCTATCCGCGAGAAATACCAAGCAAC
TGCTCAATATCTGCAAGAGATGTTTGAAGCAATGCAATATCTTCTGTGGTGGCAATGA
ATTTTATGCTATCGACACCAAAACAGCGGATTTGGCTGTGCACAGACAGCGCTGTG
GGAAGATTCAATCACTTTATTTGGTACGTGGTTTGAITGCTACTGAACAGGTTATTTTT
AGGGATGGAAGACTTTACCGACTTGGCGCAGTATTCGGTAGAAGATAAATAAAGGCAG
TTATGCGGCTATTGCACAGATTATCCGACAGATATCCGGACAGACAGATGAAGATTTAAT
CCATTTCCTTAACTAGCTTGTCTGCCAGTGCATATTGAATAACGGCGATGCACACCTCAA
AAATTTTTCAGTACTCATATCAGCAATACGATGTTGCTCTTGACCTGTCTATGATGT
ATTGGATACATCAATATACGGGTTGGCAATCAAGGATTTTGAITGCTATGACGATAC
GCTGGCATTAACCTGACATACACAGGTAGAAACATATCTTCCAGATATCAATGTT
GGATTTCGTGCAAAATATGCGATTGGGAAGAGAAGATGCATCTTTATGATAGATAC
AATCGTTCAGCTAAAGAACAGGTTCTGTTAAATACCTGCGATGTTGGTGGAGATGA
ATGGTTGGCGCAGAAGTGGCATTTTATCCGGATGAATAAGAGAGGCTACCGTTTAC
ATTCCGCTAGCTGCCGCTGTGACAGATGCCGGTCTACTTTACACCTGAAATCACTTCA
TCTTATGCTGTTTGAACCGAGAAATTAGAAGATGTTATTCGGTAGGAGATATATCGGG
AGATTGGAAATCTGGTAATCACTATTGATTGATTTGGCGGCTTATATGTTAAITGT
AGGCAACGAGAGAGATGATTTATGATGATCTTCTTAAATCTCTGTGCAATAT
ATATCAAAACACAGCACTCTTACCAATATCATGATAGGTGTTTATATGAAGAGCTA
TATCTATAGTACCGTTGATTGACTATGCCGTTTAAACGATATAGCGTACCTGAAGAC
CGCTTGGCCATTCTCTGATTGAAATAATTCGGGCTTTTCAATGCGCGCGCGTAAATA
TATCGTAAATGACAGTTGGCGCAAGCTTTATCGCCGCGTATCCCAATTGCTGTGCCGA
CTAGATTTCGGCGGATACCACTTTGGCGGATGCTCTGAACATGCTCTACATCAGGCC
CAAGATAAGCTGATGGCGCTGGTTTAAATTCGACAGCTCAAAATCGTTGGCGCAATCAAT
CCGCGTGGCGAGAGATGATTTATCTGCAAGTATGCTGCAAGTATGCTGCGCGG
TAGCAGATTTCCTGCTGATGTTGAGCGGGTTTGTTCATTGTGATGAAGCGGATGTG
CATAGGCAAAATAGCTGTTTACCGATTGAAAGAGGATTTACATCAGCGCATGCCGTCC
AAATTTTACATGCTGACGTGCTTCCGCAAGGCTTCTTCAGGCGCGCGCAGAGCATCTT
TCATGCCGGTGGCGGCTTTATATTTCAACTTAAATCTGCCGTACTGCGACGAGATATAT
CTTTGTGGGAAGTTCTGCGCAACCAACCGCAGTTTACGCGGTTGACAGTUAAGTTCGG
CATCATCAATGTAACTTTGTGTTCCCTCATCAAGATTTCACCGAGATAGGTTTGTG
GTTTGCATCATGCAAGCTGACAGCGGTTGAGCATGAGATGATTAATCTTTTCCAT
GTATGCTATAGACTTCGCATATCCGAAATCGCTCATGATGATACAGGTAGCATCTTGT
TGAATGCCATGCTCAATTTACCGAAAGGGGCTGAATATGTACGCGGATATGTTGATC
CGCCTTCTTTCGATGAGCGCTCAAACTTCTCTCAGCGCGTACGCGCAATCGAAGCTC
CATATTTACATAGACATATCACTCAGTCCCAAGGATTGTGCGGACAGAGAAGTGATAT
TTCTTGTGATTTTCTGTGCGCTCACTACCGCAATATATCCATCCACACTCACAGGT
AGGCGACGACGAGCTTGGCGCATTGCAACACGACATCACTTTGGTTTGGTTCTCCCTCTA
CGGGAACGATTGGAGATCGGCTCCCGATCCGGAGACGTTTGAAGATTTCCTGATCT
GTCCCAATCACGAGATGATGAGATGCTGCGCGGTGGGAATTTGTTGCGGATG
CTGCAATACGCTCTGATGGTTTGAATCATGTTAGACCGATCAATCGTATGCGAGCGCA
GATAGCTCGGTATACGGGTTAATTGAAGCTTGCCATATTCAATCTGTTGGCGACGCCA
AGATACGGGTCGTGGTATATCCCTGCCGATCAAGCAATTTGTGCTAAGGACATGATT
GATTAAATGTTGCCCGCATGAGACACTTGCCAGCTGAAACCGGTTTCCGCAAGGAC
GTTTTAGGCGCAACTGAAACCGAGCATGGTTTGGCTTCCAAACACATCTGTTTAAATGG
CAAAACAGGTTGGTCTGTCACTGCGCTCACTGATGATACCGTTTCCCGGTTT
TTATGCGCAACGAGCTGATTTTTCAGCGCATGTTTTCAGCGGATGCTTCTCGG
GGCTTGTGCAATCTTCTGCTATCGATTTCGCGAGGTTGGGGAGGCGCAACAG
TAGCAGGACGATGATCTGCCATAGCAGCAACCAAGCAAAAGCGAATATTAGGCA
AATAGGATAAAGGAGTTTTCATGCGATGTCGCAAAATCAATAAAATCAATGGGCAT
TCATATACAGGATGATCAAGTTTAAAGTTTAAATTTCTCAACCTTATGCTCCCT
TATGATACAAAGCGGCTACTGCTGATAGGAATAACTGGGCGACAGCTGAGCGCATTT
GTACTGTGTGCCAATGGCGCAAACTGATGACTCGGTGGCGCAAGGTTGCCAGATTTC
ATCCGCTGTGTGCTCAATATTCACAGCTAGCGTGGTATATGCAACAGATGAT
CAAAATACAGCCCATGAGATATAACGATTGGTTGGTACCTTTCGCAAAACAGCGAAT
GCCCTTTTTTAACACAGGCAATATACGCTCATCTCTCCACATAGGTACTTGGCGAT
CGGTAGGCGCATGATACATAGCCAGATGATGGACGAGTGTCTGCTTCTGTTCCATT
GTTCACTGGGTTAGGTTTAGGAGATGATGTTTAGGGTGGATGATGGGCAATTTTT
AAGTTAGGTTCTGTGTTGTTTAAACAAAAATGGTTCAAGCTCAATGAATATTTTCA
GTTTAAACAGATGTTTGGCAGATGACATGACTCGGTGGCGCAAGGTTGCCACCT
ACCATGATACGATTTATTAATTCACAGCTAGCGTGGTATATGCAACAGATGAT
CTACTGCTTATCTTAGCAATATTGATACAGCGCATGTGTAATCACTGATGAAGAA
TATGTTGCCCAATTTCACTAAATGAGACTTCGGTAAATGATTTATCTTAATGATTG
CTAATTCATGCAAAACAAAGGTGAGATTTTCAGTTTCACTATGTCACAGGCTTCTCC
AGCGTGAAATAGTTTGGAGCAATTCAGTCTGCAACTACCCCAAAAGGCGAAGTG
TTAGCATTTGAGCAGATGATATAGCATTAATAGAAAGGTTTCTCTCATATCTC
TCTCCTTTATAGTTATGTGTGTTTACAACATAATAGGATTTTATGACATGATGATA
AATATCAATACGTTTATGTTTGTGCTATCTCATCTTCAAAATAGATATTGAG
TTTATCATAGCTATCAAGGCAATTAATTTTGGTTTGGTCTCTCATGATGATG
CCAGTTACTACTAGCTACAGGCTGTACAGCATACGACAGTACCTAATAGTAGT

Appendix A

-411-

AGCGCAAGCTGTAGACAAAAACAGATGAAGAAGAACAGGAATATTTAGAAAGCTCTT
 TTTCATATTTTTCATTATCTTTTGGTTTGGTTGGTCTACAGATAGGGTTAGATTGT
 TAATTGGCTTACCTTGAGCGTCATATCAACTCACCCCATATTTTACATAGTCATCAA
 ATTCCTTTGTACCTGCTTTGGCCACTCCGCAAAATAACTGCTATGCGAATAGCACAACC
 CCTTACATGTACCTTGTGGTGTCTATTGGTCTCTAGCAGAAGGATTCACATTGTGTCC
 CCACAAAATCTTATCATGCACGATGAGTAGGATCGGCTGTATAAGTTTGGCCGCTG
 CACCGTATAGCTGTGAAGATGAGCGGTAACTCATTCCTGCATCTG
 TGGCTGTACATGAACACTGCTGTTCTGTAATGGGGCAATGCCATTTGTTTGTGATTGT
 TTACCCCAATCTTTTAGGAAACGCTGTGCTGAATCCGCCACGACTGTGATTCTGGTAT
 CAACCGCAGCGCTTACCCATTTTGAACCTCTGATAAATATCTGATTCAAGTTT
 CTGAATTGGTTTGGGTAAATAGCCTTGGACACTTTATATTAAATGGTCGTAAACGCA
 CATACATCAGTTGAGAAAAGACTTGAACCGAGCCATAAAAAATCTTTATTTGTTAT
 TAGAATACAGATTATATTTCCCTGTGGAGGATTCAGTACTGCAATACACCACTACCGT
 TTGTACTATTGCGATTGTGTTTGTGCTGGCTGTATATGAATCTTCATGATATCGAA
 TACCAGATTAGACAGCTAAACACTTGGCAATTTGTGCTTGAAGCTGTGCGAGTCT
 CCTTGCTTAAATCATCAATGACCAAAATTTGTCTGGTATCAAAAGGATACTTTACCTGTT
 TTTCATCTATTATCTCTTATGGAACCACTTTCTTAGTGCGATTGACAGCTTACCG
 CTCTATCGGCTTGGTGTGGCAAACTACTCCAAGCCATATCAGAACTCCCTGCTCCC
 AAGCGATGCTTAATCTGAATCCTAGCGGTAAAGCAGGAATAGTTTACAAAAGTTT
 CGGCTTACAATTTATAGTTTATATAATAAAAAATATCATCAAAAAATATGATTTTTC
 TTTTTTAAAGTTGCACTTTGGCAATCTTGTAAATCACTTCGTAATATCAACATTTT
 CAATCTGAATCAATAGTATAGGATGAACACTTCTCTCTTATCTAGTCTTAA
 TTCTCAAAACATCTTACTTTATGATAAAAAACAATTTTGGAAATCTGAATTCAT
 TATATACAGTTTACATAATCCCAATTAATATTCGTTATATCACTAATTAAGAATTCTT
 TTTATTATAATTAAACTTATTTTCTTATTACATCTTTTCAAAATATAAGAAATAAC
 AATAGTGATTATAAAGAAATATAAAGTATATTTTATTATCTTTTATCTCTCCA
 TTGCTGGCTGAJAATTTGTGCTCTGATTGTTTCTCTCTGCTGAATTTAAATCCGGC
 ACCGATTATATCAGTAGAATCAATATTTGTTGTGATTCTGGTAACTTTTTCAGATAA
 TCTTTTCTTCAATGATTTTCTTCAATTTTCTTCAATTTTCTTCAATTAAGAAATCT
 ATTTTATAAGTTTCCAGAAATTAATCCCACTAACTTTTGTGTTTAACTATTTGTAAT
 TAATGCTATTTCTCTTCTTCTTGTGTTTATTTAGTTGATCAATCAATTTCACTGCTTATC
 TAATGAAAGATTACGCTTATAGAAATTAATTTTTCCTCACTTTCACTGACTTATTC
 TACTTTAAACGCAATATCTTTGCCAAATCTCGTGTATGTTGCTTGGCATAAACGTG
 CCTGAATGCATTGCCAATCCACTTCCACCACAAATCACTATTAGGAATATAATTTAA
 TTGAAGATTTGAAGCAATTTGTAATATATAGGCTCTAATGTAGACACAGGATCTTATG
 TACAGATCAATTAACCAATCAATCTGAGTCTTACAGCAAAATTCACCTGCTCTC
 AGTATCATTAATCTCCACCGCACTTTGCGCAATCAGCGTCTGCGCTGCATCTGTTGC
 GCTGTTGCGGACTGCGCACCGCTAGCGTACCCCAATCAATTTGAATCGCTTACAGT
 CTCTTTCTCTCCGCGCTTAAGTGCTCTCTTTCTTTCGCGTATAACCATTTGCTGAT
 GTAAGGCGCAGCGCTTCCGACCGCGCGCACTCAATGCTCTGCTAGAGCATTTGTGTC
 TCTACTGCGGCAACCGCTGCTCTTAATCCGCGTGGCAGAAAGCTGTGCGGTTTCTTG
 ACTGGCGGTTAGTTTACCAATTCGCGTTTGGACCGCTAAATCTTTAAAGTGCTGTCCAA
 TCGATACGATACGCTGGCGATGCGGTAGCGGACGAGCGCCCTCGCTTTGGGTGG
 CGGAGCTTAACGTGAGCTTACATGTTGAAGATGATTTGCTCTTGTCCCAATATCTG
 TTTGCTGCGCGATCTTGAGCTTAAGGCTTTGCGTTTGGCAATTTCAATCCGCAAT
 GGCTAATGCTCGGCTGCTGCTGTTTGGCTGCTCTTTGTCTGCTTTGAGTTTGTCTAA
 ATGTTGGTTAATCTCGGATTGGCTTGTGAACATTTTACTAAATCTTGGCTGACGCT
 TCTTTGAATCCAGTTCACTTTGCACGCTCTTTTGTGAAGGTGTTCTTCAAGCTGCC
 CGAATGCTGTTGCGCGGTGCTGTGGTGTAGCTTTGTATCAATACCGCTTGGTTTGTG
 CGCTGTTTGGCTGTAGCGGATTTGTCGGCTTCTGCGGTGATTTGAATTTGCGGGT
 GTTAATCGCGCTGTTTGAATGATGCTGCTGAGCTGTCGCTGCGCAATCAATTTG
 TGAACCTGCGCTGTTTATTCGCTACGCTTGTCAAGTGTGTTTGAAGTTTATTTG
 TGCGCCCTGTCCAGTGTGTTTGGCGCTTATGACGCACTTGGCCCAATCCAAACATTC
 GCCTTTGTATTTGGCTGTGGTTTGTGATGCTGATGGGTGAGGTTGGCGTCTGAAGCG
 GTTTTACCTTGTCTTCTGCGCTTTGGTACTGCTGATGATGCCGCTTTGAGGTCTGT
 ATGTTTCCGACTTGAATTTGATAGCGCTCTCTCCGGCATAAATACCGCTTTGCTGGT
 TACTGAACATGTGCGCTCGGATTTGCTTTGGCTGTAAATGCCACGCACTGAAGCC
 ATACCTACGCTTGAATCACTGCGCTTGTGTTTGTGCTTGTGAAGTTCTATG
 TTGTACTCTTGAATACTTAGTTTGTGCACTGTGAATGAGCTTGGCGCTGCTGCTG
 CGCGCTTTGATGATGTGTGCGCACCGCTTTGGAATAGGTTTGGTGCCTTTGTGCGC
 GATATGGCTATGCGGTTGGTGTATGCTGTGCAATTTGCGTAGCTTTGCGCAATTTGC
 CGCTGCGGTAAAGCTTAATGACAGCGCTCTTGTGCGAATGATACGCGACCTGCGTT
 CACGCTGCGGATTTGTTTGGCGCGTTGGTATGCTTGTCTGCGCTGATTGGAATGT
 GATGTGTTATCGGCAATCAGATTGTGCTGCTTTGCGCGCAATCTGAGCTGCGAT
 GTGATATTGGATTTGCTGCTGCGCTGTGGCATTAATGGTTTATACACTGCTG
 ATTTTACTGCTTGAATACTTAGTTTGTGCACTGCACTTGGGTGCTGCTGCTGCTG
 CGCTGAGTGTATGAGATGCTGACTTGTGGCAATTTGTTGAATTTGGCTTAATTTG
 TGCATCTTACTGTTTGTATAGGTTTGCAGCTGCTGATGCGAGCGCATGCGATTAAC
 GCGGCTGTTTGTCTTTGTGCGCACTTGTGTGCTGCTTGTGCTACGCAATCGCTTTGT
 TGCCAAATCGGTAAACGCGCAACTGAATGCCACTTGAAGCTTTTGTATAGGTTG
 GTGTGTTTACTGTTTAAATTTGTTGTGTGCGCGCTGTGATGTCTATGCTTGGGATAGAT
 GTGATATTGGATTTGCTGCTGCGCTGTGGCAATGCTGCAATTTGCTGTAGTTTGTGCTG
 AGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 GGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
 CAATCCTGATTTTGGGTTTGTATAGGTTTGGCTTTGGCTTTGAGTTTGGGTTGTAC

Appendix A

-412-

AATGCGAACATGATTGCCTGCCTGAACTGGGTGCCATTATCGGAATAACATTCGCTGCC
AAGGATGTTGGCATCGTTTCCCTGCTGCAATACAACCTTGCTTGCCCTCAAAGAGTGCCTGCT
TTGGCGGGTTTCGTGATGACTTTGGGCTTTATCGGTAAATGACTAATTTATGGCCACCACC
GCTTCGCTGTGTGTTTGGAGCATCATCAACATGGGTGCTGTGATGCGCTGCGCTGAT
GTTGATGTCATTTTGGCGAGACACAGCGAGTGTACCGTTTGCGCTGCTGACTTCGGCAGC
TTTGGCATGTAGGTATTCCTCGCAATAGSGTAACATGCCCTTTTGTGTAATGCTGCT
GCCGATTCGTGTATGCGGAGTAACATGCGTTGATGCGCATCAAAATGGTGTCTGT
ATGTTTGCCTGTTTGTACCGTATCTAGCTTAATGTCGCGCGCTGCTGCGACCGGGTTTG
CCCTTGCTCTGATGATTGCTGATTGACGGCAATGATGTTGATGTCCTTTCCCTGCCCTG
CGCTGCTAAACACGCTTTTCTTTCGCTGTGATATAATACCTGCCATTCCGTCTAGGTA
GGTGTGCTGCTGCTTGTGATTGTTGACTGCTGGCGGTGGTGGCTTGCGCTGTTGATGTGTT
GCCGTGGTGTAGCAATAATGTCTGTTGCGCAAGAAGCATGCCGCCAATATTATGATGTC
TGTGTGGCGCTGAACCGCTGATTTTTCGCGCATGAATGCCGCCACCATATTGCTAGCTGT
ATCCGATTTGATTAAGCCATTGGCCGCTGCAATGCTGTGCTGAGTTTGATGTTGATGCTGCG
TGAAACATTTGATTTGATGTTGCTGCTGCGTGCACAAATGACCTTTACGCTGTATGCTGCG
ATTTTAAACCGTACATAAACCTGTGGCACCATAACGGTTTGTGTGCGGCATCAGGAAG
CTTAACCTCTTTTGTACCAACCAACAATATCGCTGGTCAGTTGCGCTACTTGCTGCGG
ACTTAATGCAATGCCAACGCTGAGATTATCGTGAACGTGCGCGCATCGCGCATTAATCCAT
TAAGGCTTTAAATTTGCTTTCGTGCTTTGATAACCGTCTAACACGATGCCCTGTGCTGAG
CTCTGCGGATTTGTCATTGATTAACAGTTGCTGCTAATAACCATCACCCAAACGTTTATG
TAATATGTTTGGGTCTAGTTTGGAGCTGTGCGAGCATATAGTCACTACCCACCATTAAGC
GTAGTTGCGAAAGCGTGGCTGCTGTACACAGATAGCGCTTATTGACAGAGTGAATAAT
GTATAACGCTGCTGCGGTAAATGGGGTAAAGAAATGGACGTATAGGGTAGCGAAATACC
GTTGCTTTGCGGCAACTCAGTGCTCTTGCTGGGCGCATGAGGCTTAATGCTTTGCGATG
CGATTATAGCGAAATGAACCAAGTGAATATGTCGTGATGTTCCGCGGCAAGGTGA
ATTTTGTGCTATGTGCGGCTGAGTCTGCTCTTATGTTCTCACGCCAATAGCTGTG
TAATTTGCCATTTTCACTGAATACCTTCTTTGCGCAAGGTTTGCTGTTATGCAACAC
GCTCTTTTCTGTTTGTACAAATGAGATTGCCACCAAGATTTGGCATTCGGTATTAATA
ATCTGTTTAAACGATCTACTCTGAAAGTATCTCTGCGGCGCTGCTGCGGCGCTGCTG
GTTAACTTGGGTTTTGTGGTGACTTTTCAATAATCGTATTAATGCCAATTTTATCGCGC
CGCTCCATCAGGGGGCGTAAGTGTCTGATTATCGTATATAGACAGACCGCATTAATC
ATGTTGCGTGCTCTCGCAATAATCTGCTGCTCGCAATGCTTCGTATCAACCAATATG
CTCGCGCGCTGTTCTACCAACTGCGTTTCAAATGCTCATTGGTATGTGCGAGCTTTTC
TACACCTAAACGCGATTGCTGCTGAGCTTCAATGGTGGCGCGGCATTTGATTCCTTTG
GCGTTTGGCTGTGCTGGCCATTTGATATCTAATGGCGGCCAACCCGATATCTGTAACG
ATATTCGAATTTATTAACGCGCAAGTGTGCTGTTGGTATGAGTAACGATTTGCTGTAAT
ACGCAACATCACGGCTGATTGTATGCGCCATTCGTATATCAATGAGCGCGTAGATG
CTGACCATCGTGAATAATCAGTTGTGATTGGTGGCTATTTGCGCAATTTGATTTGTCAG
GCTGCTGAAACGGCTAAATCGGCTATTCTGCTGATAATACCTGGCATGAGCGTTATC
CAGTTGATCGGTTTCAATCTCAACTGTTGGCGTGTGTGATTTGCAATTTTGTATTAT
CAGGCTGCGCGCTTGAATGTGACCGCATCACTGAATATTTCCATTGTGATTGTCAAA
CGCGCAACCTTTTGCAATTTAACGTGATGAATGCTATTGCTGCTGATTAATTAACCTTG
TTGGCGCATTAACCTGTTGACATTGGCAATTAATGCTGCGTAATATCACTGACGACAC
ATGCTGGCAATTTGCTGATGACGAAGAAGTGGCGAGTTATGTTGATTAAGAAAGG
TGCAGTACCGCTACCTGTTGCGAGTTTGTGCTGTGATGAGTGAATGAATGAAGATGCATT
GTAACATTGCGCGGTTGATTGCTTGAACCAATTTGACGCGGTTGGTGGGATATCTGTAA
ACCCATGCGGCGACGGTTATCCATTTGCTTGTGCTGATCAATATGGAGTTTGTGGAAC
TGTTTGAAGAGAGTTTGCTTGTATTAAAGTGTGCTGGTATCAATAGCCAAACGAGCGGC
TTCAATGGTGCTGATGTTCAATTTTTCAGGCTGCGCGAATGTGAATCATATTTTGGC
TGAGGCAATTAATGTGCCAGTGTGTTGAATGAGTGAGTGAGTAAATTTGATGCTGTTG
CGATACCGCGCTGATGCTGATGACAGCTGATGCGGCTGATGCTGATGCTGATGCTGATG
TGATATTCGCTATCTTGCATATGGCGGCGAGCATCTGCGCACTATTAGCAATAACCGC
ATTTGATCAATAGCCACATTTACGGAAGAAGCAAACTGCGCCTTGATTACGAATGCC
TGCTTGTCTGCGCGCTACTGATCAAGGTGATTGTTGGCATACATACCTCTCAATTTGGC
TGATCAATCGCAATAAAGGATATGTTGCGGTTTGTGGCTGTATGTTGATGCTGAT
GGCAGCGCATTTATGGAATAAGCGAATGTGCAATACCTGTTGCGACCATATCGTTTGT
TCCGCGGACGACGACACATCTTTCGCCCATACGGGTGCATCAATTTGGATGATTAAT
GGAATACGTTGATTAAGGATACGCGGATGCAACGCTGCGCGGATGATCAAGAT
GCTATGCTTATCTTAACGCGATGAGTGTCTGCTGATTAAGGATGATGCTGCTGCTGCTG
CAAGTGGCACGGGAGCATATGATAAACACCAACCATGACTGCAATCCTGCCCGATT
GGCAATAAGCACTTCTGACGCTGTCGCGCCACTTCAATATAGCCATTCATTGTTGAAGA
ATGGCTGCTGTTGATTGGTTTACAAACACAGCTGCTTCCGCCCTGCCAACCAAGGATT
ACCTTGAATCGAACCGCTAGCTGTGTTGGGTGTTGCTGCGGCTGTTGTTAAATCGC
CCCCGATTACCCCATCAAACTGGGCGTATGATTACCAAGAACCCCTGCGAGATAGG
GGTGAATATGATTAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
TTTGAAGCAGCTTTTATCAAGCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CAAGTGGCACGGGAGCATATGATAAACACCAACCATGACTGCAATCCTGCCCGATT
GGCAATAAGCACTTCTGACGCTGTCGCGCCACTTCAATATAGCCATTCATTGTTGAAGA
ATGGCTGCTGTTGATTGGTTTACAAACACAGCTGCTTCCGCCCTGCCAACCAAGGATT
ACCTTGAATCGAACCGCTAGCTGTGTTGGGTGTTGCTGCGGCTGTTGTTAAATCGC
CCCCGATTACCCCATCAAACTGGGCGTATGATTACCAAGAACCCCTGCGAGATAGG
GGTGAATATGATTAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
TTTGAAGCAGCTTTTATCAAGCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CAAGTGGCACGGGAGCATATGATAAACACCAACCATGACTGCAATCCTGCCCGATT
GGCAATAAGCACTTCTGACGCTGTCGCGCCACTTCAATATAGCCATTCATTGTTGAAGA
ATGGCTGCTGTTGATTGGTTTACAAACACAGCTGCTTCCGCCCTGCCAACCAAGGATT
ACCTTGAATCGAACCGCTAGCTGTGTTGGGTGTTGCTGCGGCTGTTGTTAAATCGC
CCCCGATTACCCCATCAAACTGGGCGTATGATTACCAAGAACCCCTGCGAGATAGG
GGTGAATATGATTAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
TTTGAAGCAGCTTTTATCAAGCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CAAGTGGCACGGGAGCATATGATAAACACCAACCATGACTGCAATCCTGCCCGATT
GGCAATAAGCACTTCTGACGCTGTCGCGCCACTTCAATATAGCCATTCATTGTTGAAGA
ATGGCTGCTGTTGATTGGTTTACAAACACAGCTGCTTCCGCCCTGCCAACCAAGGATT
ACCTTGAATCGAACCGCTAGCTGTGTTGGGTGTTGCTGCGGCTGTTGTTAAATCGC

Appendix A

-413-

ACAGCTTTTACCTTCGCGCTTGGTAGTTTCAGCAACGGCTACCACAGCCCCACGTTTGCG
 GTTGAARAATTACAGCATAGAGAGTTTATTCATGATTTCAGTTATTTGATTTTTATAGAG
 TTATTAGAAAAAATGGATAGTCTGACCATTCTAGATCAAGGATTCTGGCAGTCAATTA
 CCGGCATTTTACTGCCATTGTGTTTATTAATTAGGAGCTTTACTAGATAACGGTAAAAAA
 TCCCATTCGAACGAATGGCAAGGTTTATACCGTGCTGTGGCCATACTGGCAATCAGCA
 CATATTGGCGATTATCCGGAGAAGTTAACTCTGATGGCATTTGGGTATACGATAGTCT
 TCGTGTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TTTGACTGGCAATTAAACAGTCGATTTCTGCCATTGTCTGCCAATGTTTACTGTG
 CTTGGCCGTTTGAATTAAGAAGCAGTCTTCTACTTTCCGACCTTTTTTCTGTGTGA
 GGTCTATAATCCATAGCATTCCCAACAGCATTTTGGAAGGTGGCGATTTCGATTGGA
 AGTGCMACTTTCCCTAACAGAAAAAGCGCAGTATCGGTAGCATACGGCTCTCCTGCA
 GAAAGATTGGCATGAGCTACACGCACTGACCCAAAGCGCAACGATACCATCAATCAATACC
 TGTCCGGCCACTGACCGCTCAACGAATTCGGCAACAGCTGACCGCGCACAAAGGACCA
 TACCGCGCGAAAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 ACGCGCAAGCGGAGCTATCAAGACGCTGAAGCGCAACCTATAGCTCGATTCGAGCG
 TGATTACGACATCGACACCTTTATCCGCCGCAACTCAGTCCCGCAAGATATGCGCT
 ACCTGTGCAACACCCAGCATCGCTCCACACAGCACCATTACCGCTACCTTGCG
 AAGCAAAAGCAACGGCAGCAGCTGTGGCAACATCTAGAAATTCAGCAACCCCTACC
 GCAACGCTACGGCAGCATGGACGAGGCAAGTACCCACCGTGTGGCATAGAAA
 ACCGACCGCTATCGTGACCAAGAATTCCGTTATCGCGGATTGGGAAGCGCACACATTG
 TCGCAAAAGGACAGAAAGGCGATTATTGACCTTGGTGCAGCGCTTACCGCTGACCA
 CATCTGCAAAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TAAAGGCACATAAAGCAGGGTGCAACCATTAACATGTAACGCGCAAGGATCTTACC
 AACACCAAAATACCAAGGATTGAAGCGGAGATTATTTTGTGCGCTTACCAT
 CTTGGGGAAGAGGGCTGAATGAGAACCAACGAGCTATCCGGCAATCTTCCCAAC
 AAACCGATTTCCTAACATCAGTGATCGGAGATGACGAGGTTCAAGATGATTGAAC
 ACCGCAAGAAACACATCTGGCTACGAACGCCAAGTTTATTCTTGAATCTGTGCTTCC
 AACCATATACACTAGTGTGACCTTGAATTCGAATCTAAGGTCATCGAAATTAAT
 TTAGCTTTCAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 ATGCAGCTAGATTATAGATAACCATTCAGACAGTCCAATAACATTATGTTGGGAT
 TACCAAAATACCAAAATACCGACTCTTCAGATGAATTAATAAGAAAGATCCATA
 TGTATAAAGCAATGAAGGTTAATATGACAGATGACGCAAGTTGATTTTGAATACCCA
 TCTGAATAAAGTTGATAATATCTAGGAAATAGAAACCATACATACATACATACCAAC
 CCTACCATCCCAATATAAAATCTATTACCCCTAAAAAGATAGTTTAAATCATTAAC
 CCATAACCTGAARAATTAAGAGCCAAAAATATCTCCCTTATAGAAATATGATT
 ATATATTTGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAAT
 TATGATCCCATAGCTTCAACCATATTAAATCTAGATTGTAACTACATCATTAAT
 CCATCCTCTATTTTTTCTCTCATCTAAGGATTGGAAATTAAGAAATATCTTATTT
 GATGTTACCGCTTAAATCAATGACAAATATCTCTCTACTACTCAAAATTTTGGTGA
 ATAGGCTGTAATACCTTTTGTGCTTTTCACTGTGATATCCCACTCCCTAGGATTA
 GTTTTTTATTGACCAAGCTCTTAJAAATATAAAATCCATTACTATCAGTGATTCCT
 GACGAGCGCTCATTAATAATGGAAGATTACGACCACTTTACTTCCGCAAAAGATT
 ATATAAGAGCTTCTCCCTCTGCGCCCTAACCGGTTATAGCAGCAGCGATACAAATCA
 GCTCCCAACCATCTGCTTTTGAAGCCAAATTTGCTCATAAAGATGCTGGCAGCA
 AAGAAATCGCAGATTGTCAATGGTGTGAATACCTGTCAAACTGTGATGATGCGCT
 TGTGAGTTATATAAGGCAAAATCTCTTTGGCAACCGGTGATGATCCGTAAGCAATA
 TACTTCCAGCAGCAGGATGCAATATATTAAAGACATATAATGCGGTTTCTGCA
 CCATGCCCAATGGTTCTTGAAGACAGCTTTTGAATTTCCGTATCAATTACTTTGCTA
 AATTGTCTATCCTTTTGTGCGATTACTTTTTCCATGTAAGAGACAAAGTTTACGG
 GAAAGGAAATTTGCTAATTAATCAATCTTCTGCTGTAAGCGGATFACCTTCTCGCGC
 ACAGACGCGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 GCTGCGACGCTCGCTTAGCAATGATTTTGCCCGGCTCTTCAACTGACGCTCGCGCGG
 TCTCTGCCGTGCGACGAGGCTTGGCGAGGATTTCACGACCGCGCTCTATCGCGGCA
 TCTGACATCTGCCCTTATTCGCGCGCGCAGCGCAGCGCGCTATGGCATGGGCAATC
 TTGTGGGTAAATGATGCTGATCACTGTTTGAATTTACTGGCTGCTTCCATCGGCA
 GTATTACCAAAAGCGCAAGGATATCGCTTCAGATTGTCTTCAGGCTCGCGCGGTTG
 ACAGCGGTTATTAATGATGCGGCAGTCCCGCGATTGGCAGGTTGACGGTCAGGTTGTG
 ATCCCTGCTTATAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 GCGGTGCGAGCGAGCAATCAGATTGTTTCACTGCTCTTCCGCAAGCTTTTCAGS
 GTGTTACGATATGCTTTTGTGTGATGAGCGATACGGAAGCTGCTGCTGCGCAGGAG
 GCGAATGCGGATCGGTTGCGCTGCGCGCGCGCGCTTAAAGCCAGTGGCGCTCCGCT
 CCGCGCGCGGATACCAAGGTTAACGCGCAGCGCAATTCGCTGCTCGCGCTCGGTT
 AAGCTTCTGTTTATGTCCTTATTGTCGTACCGAGTTGTACCTGGTTCAGTTGAGC
 TCTTTGGTGACTGGAGCTGTTTCAATAGCAGCGTAGCGGCTGCTTCAGCAGCGAC
 TCTTGGCACTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 ATTTGCGCTTTCAGCAGGCTAGCGGTAAATCATGGAAGCGCTGCGCTGAGCA
 CACACCTTACGCTGATTTTAGGTTTCATGACGCTCAGCTTCTGCTATTATCAAAA
 TTGCGGCACTGAAAGTCTGTTGTTTACTTCACTCTCAACAGCTTAATCATATGCTG
 TTTGAGAACTCAAAAAATTTTAAATACCAACATAGACATAGCTTACATATAGTGA
 ACTACATGCAATTTAATGCTTCTTATTGCAATGCAATATTGAATTTCTTATATGCTG
 AAAAAAAGATCAAGCTTCTTCAATTCATCATCAATCAGATGAATGATGAGAG
 CAACTAGCTCARGAGGATTCATCATTAATTTCAAGTTGAGGCTTCTCAAAAG
 ATCAATCTGTTGTTTACCTTACCTTCAATTTTAAATCTTCAAGCTTAAATTT
 CATCTGAATCAGCTATTAAAGATCAATTTGCGCTTGGCTGCTGAATGCTTAGCT
 AATTTGAGCGAGTTTATGCTTTCATGCAAGTACAGCTTACTCAGCAGCACAGGCTTA

Appendix A

-415-

AAGCATTATTCACTACCGGCACCTCAGCGCATTCCGCCAGTATTCACTACGCCGCG
TTGAGTCGCGGCACGCTGCGCGCAATAATCTTCGAGTAAGTCAATACCTTATGCTTTTCC
GCATCGCTGAGTGTAGCAGGGTTTCTCGCGCAAGCTGGAGTGCCTACGATTTCCCA
ACTGCTGGCGCAATTGCCCGCTTTTACATTTTCTCTGTACCAATCCGCTACACACCCA
GCCAAAGCTGGCGGAACCTGTTTGGCAACATACTCGCTCGTGAAGCTTGTTCATTTC
CTGGCGGCTTCTCTTGGAGCTATTAAACCAATGCTCTTAATCGCGCATTGCTTAAGTTC
TCTTCAGGCTGCGCGCTTTCAGCGCGGTATTGATACAGCTGAGATCACTGCATTACTG
AGATTCGGTAGCCAGCTGCTGCAAGGTTGGCAATAGTATGCTGCTGCTGCTGAGC
AGTGTGGGTTCTTCTTCTGCTTCAATTCGGCGAATACTCGGCCCATCTGATTAATAGCA
CCCGCTGCTCAGGCGAGAGTGAACATTCGCTTGACCGTATCACTGTCGCGAGATCTTTC
AACCTTTTGGCGACATCACCTTTATTATTGATGATGGATACAGCTGCTTGGCTATACAG
GAGGCTAAAGCAGCGGTTTTCATGCGACCTGCTGTAGAAACGGTAGCTGCTGCTGCTC
GTTGTGCGCGCTGCTCGCGCAGCTCGCGCTGACTACTCTCTGAAGCGCTACACCGCCC
GCTGCGGTTGCGCGCTATCCATAAGTCAGTGGCGTTACGATTATGGTACAAATCGTGC
CCGGCTCTGATGAGCTTCTGCTGTTATAGTCCCATTTATCTGAAGCAGTTGCTCACTGG
TTCCAGTTGACGTTTCTGCTACTTGTAGCTATCTAGGCAATCTCGCGCTGTTG
GCCAGCTTTTCGATTTTCGTTTCAAATTCCTTTTCGAAATGTCAGCAATATAGCCACCG
GGGCGGTCAGTTTGGCGGAGTAGGGCTTTCGAAGCTGGCGAGTTTACGCGTTTCGATA
GTGCTGCGCGCTCGCGCTGTTTCTGCCATACGGTTGAGTTGGTTCTTAATTTTCTTCG
GACTGGATACGGTTACAATGCCTTTGAAGATAATTTTCGATGCGCACGGGCTTTTTCG
CCTACACCTGCCGAATGTTCGCGCACCGCGCAGCGTGTTTGAATTCGGTACCTTCGAGC
ACGTTATCCGAGCTGAACCGGTGCTGCAAGTTTGGCGCAGCGCGGACAGGCAATTTC
TCTTGGTTGAGTGTGCTGCTTAATTCGCTTAATTCGCTGCTGCTGCTGAAGCGC
CGCTTTTTCGACATCAACTCGCTCTGTGAGAGCTCTTCTTCGCACTGCTGCTGCTG
TCTTCACCGCGCAACAGGGTAACCTTACCTGCGAGCGGATGAAGCGGGTGTTATGCT
TCGATTTGTCGCTGCTGCTGAAGGCTTATGCCCTTGGCGCTCAGTCGAGGGGCTGCG
ATAATCAGGTGCTGCGGGTCTGTTAACTTGGTTTTCGATGATTTTTCGCGCTTTTA
CCTTTGCTGTTTAAAGAGGATATAGCATGTTTTCGAGCTCCAGTACAAATACATA
TGGCTTTGATGTATCTGCTGCTGAGGAGCTTGATTTCCGATGACGATATAATA
CTGCTATCATGCACTGCTGCTGCAATGATACCTTACCTGCTGCTGCTGCTGCTGCTG
GAGGCTTTTTCGAGCAGCTTTTTCGTAAGTCACTCTGTAGTGGGCTGCTCAATTTCA
TATTGCTGCTTATGCGCTCAATCGAATGAGCGCGCTCTGAATCTGCTGCTTTTGGC
AATACGCGCTGCGGCTGAAGGTTGAGTTTTCGGAAGCGTAATACGGAACGCTGATTT
TCGATGCTTTGTGCGGAATCAAGTCAATATTTGTGCAAGAAAGTTGGCTTGCAGGTAT
TCTTTGCTTTGGGTTTTTAACTTTAACTTCTTGTGATGGCTTGAATATAGAAGGCC
ACAGCGTCGCTGCTTCTTTCGAGGTTGGAATCACTGCTTTTATGCGAGCTTTTTTC
ACTGGCGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
GTAGGAATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
GTGCGCACCAACAGTTTACCGGCTGTAATTTAGAACCTCTTAATCTGTTCTCTCT
GTAACGAGCGGATATGCTTTTTCGTTCCAAATGAGGAACCTTGAGCACTAGCGCGACCT
GCATTTCTCTCTTTTGCAGACAACAGCAATTTTCGCGCTGTTTGTATGCTACAGGTCGGTA
TGCGCACTGATGCGGTTGGCAGGTTGATGGTTAATGTGCGCTACTGCTTCAATATTC
AGCGCTCGCGCAATGGTTTAACTTCGCAATTATCTTCGCAAGTTTTCGCTGAAACGGTA
CTCCAAATGATTTTTCGCGGCTGACTAGGCGGTACCGCGCATAGGTTGATTCACCC
GCTTTCAGCGTGCTGCTGCGCAATTTGGGAATGCGCGCATGAGTGGCAATACAGC
TACCGCACAGCTTGTGCGCAAGGAGCTTTGCTGTTTTCGCAATCTGCTGCTGCTGTA
ATGCTTAGATGACGGTGTGCTGAGCACTACTTGGTTGAGCGTTACCGCTGCTGTTGT
GCATTAAAGTGCATTAATGGGTAGACTCCAGCTTGTATTTTCTATGCTCAATGCCCGC
TCGGATGAATGTTCAATGCCCGCTTTTGGCATGAGCACTAAGCTTTTAACTGCGCA
TTACCACTGCTGTTTTCGATGATGTTTTCGCTGATTGAATGCTGCTTTTCGCTG
TACCAAGCTGAATACGCTTGGCGCACCAAGCTATATCTCTGAGATGAAGTGAATA
TGGATATGCTGCTTTCGAGCACTGCTTTCACCAAGCTGCTGATGACAGCGGCTG
GCTGTAGGCTATTCGAGCGGTAAGTGGCAATACCTTGGCGCAATAGGATACATGA
CCGCTTCGCAAAACAGCATGAAGCGCTGTAAGCAATATTCGCTGCAATGCGGTGGTT
TCGAGAGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TGAATGTGAGATTAACCGAGTTGTACGAGATTTGATTTGGTACATACAGGAGCTCT
GCTTCCACCGCATTTTGAAGCAGTGAGGTTTTCGCTGCTGCGGTAAATGGGCA
CGGTTATCGGATTTCAAATGGATGCTGCGCGCACAGCAATCTTATCAATCACTCAATTC
AGATCTTTACCTGTATGAACATACAGATTTGCCGGAGATTCAGATTTGCTGCTGCTG
GTAGATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
AGCGGATATGAGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GTGCGGCTGCTTTCGCTGCTTATTCGCGCGAAGCTGCTGATGGTGGCTGGATATACG
GTAACATCTGCGCGGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CTGTATACGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GACAGAGTACGCGCGCTTTGCGCATTTGTTACATTAGTTTTCCTCTCAATACCAAAATTA
TGACAGCATTTAATACCGGTGAGCTGGCGGAGTGGCGTATTCGACACACGCTGCTC
GTAGATGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CACATCTTGGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GTGCGGCTGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GCTGAGAGTACCAATCAATTTGCTTGGCGCTTTCGAGTGTGCGCGCATTTTTCGCGCT
AGCGCTTTTCAATGGCAATCAGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GATACAGGCGAATAGTGGTTTTCGTAACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GGTAAATCTACTTTTCGAGACCGTGAAGACCGCGAGTTTAACTCTGTAATTTTCGCT
TGAAGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CCTGCTGCTCTACGCTCAATGCTGCTGACGACATCAATCTGCTGCTGCTGCTGCTGCTGCTGCT

Appendix A

-416-

TTGCCGATTTTGGGGGCGACCGGTAGTAAAGTGGCCGACGACATTTTAAAGCGCGG
 CCATTAAACGGTAATCCGTTGGGTTGGCAATATACAGCTGGCCCTTTTGAACGCCCTACG
 GTAACGATGCCGTTAGTGTTCGTAGCCGTACCGCGTACCTGTTCAAAATCAATTGGCA
 CTGGCTTTGACCAACAGGATATTGTTACGGTCGTTGTTAAACATGCCCTTTGTTGTG
 TCAACATCAACCTGCGTATAGCGGTTGGTGGTCAATCCGCGTCCATTCCGAAGTTGGATA
 TTCACCAAGGGGCGACCGATGTTGTTTAAAGATAACGACCTGCTGCTGTTTAAAGTGCT
 GATTTGTGGGTGGTAAATTTGGGCATGGCGAGCAATACATCATCAGGAAACCAAGAG
 CAGACCAAGTTTAAAGTGCTGTTGAGTTTGGCAAGAGTGGCTGGATGAGTTTCAGT
 GAAACAGAAACCGAATGCTGCTGCTTTACCTTTGGCCTGGCTGTTGGCAATTCGCTG
 ACTGCAACCATGGTCTGTGCTTTTACTAAAGATAATGGCATGATAACCTTTATTCATG
 TCTATTCCATTTTGAAGTGAACGTACGTCGGCGGCAAGTACGTAGGTAAGTTTGAACGGT
 CTGAGGATAAGGAAGACGCTCAATATCAGTAAAAAATCAGAGGTTAGAAACTGTAA
 TTCAGTTGAAGCGGTAAACGGTGTGGTGGTCTGAAAGCCCTTGGGTTTATGAAGCGGC
 TTGCGGGCAACGAGATCAATGAACAAACATACCGGCTACTTTATGCCCTCCTCTGAAGCGG
 ACCATGCGACCCATCAGCTGCTTGGCCGATACATNTTGTGCTACTTTGGCAATACGCGG
 CCATAGTCCGCAAGATGAGTATGATGTTGCGATGAAGATACCAAGTTAAAGTATTC
 TGCCAGTAGAATCCTGCTCCGGAAGACCTCTGCTCCCATCAATCCGCAAGCGGAGTG
 TAGCGGCTGGCGATTGACAAATTTATCTTGGGCAACCAAGCGGCTTTTGTTCATTGAGCT
 TGAATGGCGGCTGGGTAGAAAACTGCTGTTTGCCTAAAAATAATGGGCGGCTGCGTCC
 AAATCGGCAATGAATGTTTTCATACGAGATGCTACCTGGAAGATATCCGCGCGCTTTTCT
 TCGGTCGACGCTACTTTTGGCGCATGCGGTCGCGGCTTTGTAAGACACTTCCGCTCA
 AGCTGCCAAGCGTTGAGGTAAACAGCGTGGGCAATTCGCTTCCAGGCTCGACAGCGG
 CGGCTGTTACTACGAGTATGCTGATGTTTTCGATGATGTTTGGCTTGGCTTGGCTTTC
 TTCAATTCGCACTAGAGTTTATGAAGTCTGTACGCAAGCATCGCTCGCGGCGAGG
 CTGCTCTGATATTGTTTGGCGTTGTAACTGTAATGACGGAATAGCCTTGGTGTGCTTG
 TGGTAACGATGTCATTGTGATTAAAGAAACAGCACTTTTTCACGGGACCGGAATAA
 TGCACGCTGTAACTTCGGATCCGCTTCAAGTTTCCGTACCGCTGGCATGCTCAAGTCC
 GTTTTGTGGCGCAACCGCGTCCATTAAGACATAAAGCAAAATCGTTAAAGCCAAAGGG
 TTATCGAACGATAAGCGCAATTTCTTGATATTGGCGGTCGTTTGGCGCGCGCATCA
 TCTATCCCAATGATGATATGTTTATCTGTGATGATGATGATGATGATGATGATGATG
 TTGCTCTCTCTCTCGACGATTAATCTGAATCTGTTTAAACATCGCGCAACAGCGG
 AGGTTTTCACAGCGCTGCTACATCGCAAGATTGAGATTTTGTCTCATATAAGGGA
 AATTTGTTATTGAATGCACTAATACCTGCCCTCGGCACTTCCCATCCGCTTTTCTTCA
 TAGCGGATATCCCTATTTTCGCGCTGCTGATACCGCTAATTCAGAAATCCCGAATCCATA
 TCTGTGTTGGATAATAGCTTGGGAAGTGAGGTAGCCACGACGATCAGTATCTGTTGC
 CGCGCTTTTGTAGCGTGTCAAAATATTAGGAACCTAAACACATCCGATTTTAAAGCT
 GTTCTTTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 CTATGTAATTTTACCGGATGACAGCGTGTTCATCTTCACTCAGGACATTAATGTTCTC
 TCCAATGTTGCTCGAAACGACATTTGCATCAGTTTAAACATCAGCATCTATGTGCTGC
 TGACGCTGATGGAACGATAGCTTGTGATGCTGTTTTCATCGGCACTTAAGGTTTAAAG
 GGTATGACAGCGAGGATAACCAACGACATGGAGCAGGAAAAATTTCTAGACATCAATA
 TTAATTTAGCAATATTACTATTTTGTGATAAATTTAAAGTATTACAGTATAGAATG
 AGACCTTTTGCAAAATTTCCCAAAATTTCCCAACAGACATATTAGGSGAATTTGGGGAATTT
 TGAAGGCTCTGGACAGTAAATTTTGAAGCGCTCGCGCTAAATTTGTTATGGAACCACTGA
 AATCCGCGCAACGCGGACAGTGAAGCGGCACTTCGATGATTTCTTGTTCGACGATA
 ACAGCGCAGCTTTTCTTAAAGCCAAAGACAGGTTTTCAGATGGGGCATAGATTTCCTT
 TTTGAAAAATAGGGAATAGGAAGTTAGTGATTTTGAAGCGCGCTGAAAGGTTTC
 AGACGACCTTTTGCAGTACGCTGCTATTTTATTTAAAGCTTTCTCTTAACAAACGAGCTA
 ATATTTTCTGTAAATAAAGCAGATAAAGACAGCATCAATACGTAGATTTGGAATAAT
 CGGTCGATATAGAGATAACAATATAAAGAGCAGCATGATGCTGGAGTGGCATTAATGAT
 AATGTTTGGCAACATCATACCTCTCAATATTAAAGCAACCGCTGAATTTCTTGAATCTGTG
 TCTCATGCTTTCGCAATCTGCTTAAGCTGATACGCTGACAGCGTGAATTTGATGAT
 GGCATGCTCGCAACGTACCAATTCAGGATCCCTACGGGCTACCTGCTAAAGCTTCG
 GATTGTAGCTTCCCAACAGGCGGATTAAGTGAAGCTATTGTTGGAATCTTAAGATT
 ATCAGGATTTCCGATCTGTTAAGCGCTGAGATCTGCAATTTCCGAATAATAGCT
 TTGTTGGCATTAAGTGGCTCGGACCAAGTCAATTCATGAACACATAAGTGATT
 AATTTAAATCAGGACAGGCGACGACGCGGACAGTCAAAATGTTACGGCAAGCGGAG
 GCACGCTGTACTGGTTAAATTTAATCCATATAAACTCTCAATTTGAACCTCTTGT
 ATGCTTAATCAACAGTAAAGGAGGATGAGGATATGCTGATTAAGTGAGGAG
 ACTTGTCTTTCGGCTGATAAGCGCTCTGATGCTGGGATATAGATGGCATAT
 AGCTGGTACTGTCGGGAACATGCTCAAGACGATTTGGAAGGATCAACTGCTGCTCG
 ACTTCGACGTTCCGATTTGCTATATAACCGCGCGCTGACGAGGATGTTTGTTCAGAG
 CGCATTTCAAAATCCAAACTCTTGAAGAAATGCGCAATGGTGGTTCAAGCGAGCT
 TGTCTGTCTCATGCCGCTGGGGGAGCGTGGCCAACTGATGATTTCTGCTGCGGATTTCT
 CTGAAGAGCGCGGACTTCTTCTCGGCGTAGGCACTAAGTTTGGCTTTCGCTCTAAAG
 CTCGCTCTGATCTCATATTCTGTTGTTGCACTGCACTATTTGGGGGATAGGAAC
 ATATTCTGCAAGATCTCTGCAAGCTTAATGGCGCTTTTACCGCTCATTTGCT
 CGAAATATGAGGTTCTGGTTTCCAAACGTTTCAGACATGCTTTAAGGCTCGCGGTTTC

Appendix A

-417-

ATTCCCGGTGTATCAGCTTCAGACGACCCAGTTCTGTTCTGCCAACGGTTTTCTCAAAC
 TGCCCTCCGTTTTCACTGCTGCTGCAGCGTAOCTCTCGCCGCAAGCCTGAGGTGCAAG
 CGCAATAGCTTGTGCCAGCCTTAACCTTTCTCCATCTCCACGAATTTGCTGTAAT
 TGTCCCGGTATCCGGTGATACACCTGATTACGCCGATCGAGGTAAAATTTGTCCTC
 CACTGTTGCTTTTCGGGTATAGTTACCAATATCAAAACAGGATAATCAATACAGCA
 TATCGATCAAAATGCTGTCATAGGGAARATGCAACGCTGGTGTGCAGATCACTTACC
 CGTCAGGCTGGTTTTGGCGGGCAACGGGACTCTGGGACGGCAAGAGGTTGCTGGTCT
 ATTCAATAATTTAGTTAGCAAGTTTTCAGACGACCTTAGAGTTTGTCTGCGAGTGA
 GAATATCAGCAATATTTGACCGTCACTGTACCGCTTTCCGTGATTTATCTGCTTTTGT
 TGGCGGAGCAGTTAATCTCATGTTCAATCTCAAGATTTGGTCTTCGGTTATAAGGAGGTGC
 ATTAACGGCATCATTTACCAATTAACGATACATTTGATACACCTTTGACACCGAGC
 ACCGTAAAGCATTTTTCGGCAGATATAAACTGCGCGTGGCGGACAGGATTTGCAACCAA
 ATCCCGCATGTGGGACCTCCTTTGGTGTGGAGCAGTATAGCTACATTTTCAGCTATATT
 GTCTGTTACAGGACCTCCCGCTCAACGAGCTTCAATCATGAAGTTAGAGTTCAATCAT
 TTTTATCTCCTTTCTGTTGGTTGATTCCTAATAATTCGGCTACACAAATATTTGGC
 GATATATTGAATAAAATTCAAAGTACCTGAATAAAATTCAAATTCACATATATTGT
 TATGTAGTGCAGAGAAGAACATATCTGATAAAATATAGCACTTGATAACAGCTATTA
 CTAATATACGAATAATGTAAATTTGCTCCAGTTTTCATAGAATCCCTCACAAATTTTC
 CAGAAATCTAACTCTATCACTGATAAATCACTTCTTAACCTCTCTATATTTCCCTG
 ATTGAAGTTAAACGATGATTTTCAACAATACCGGTTCACTTACCGATGTGTTCTAA
 CACTTTTTTCCGCACTCATCTAGCGTTATCTTCATCCGATTCGCAATCGCAATATCCGTT
 TTTCAACGATACAAATATTGCGATTTATCTCAACGCTGCTGCTGTAAGCGAAT
 AGCGTTGGGATTCGCGACTGTCGAGATGAAGAACGGTATCGGTACGCTTTGCGGAG
 AAGCTTCTCACTGAAGGCTTCAATAATTGACGGGGTGGCAATCATGGGACAAITTTGTGC
 GGCAGTATCGTTGATACGGCTCTCATCTTCTGCCAGCTCGAGAACTGTGGCGCAGACT
 TTTCTATGTCGGGAATTTCTTCAATGACCACTCGAGTAAATATAGCGGTTGGGTGAA
 GGTACCGACAGCAAGGTGAAGGTTTCACAGCCGAGCGGATAGGTCTGTGCCACCAAC
 CGGTGGGATGTAGAGGATCATCACTGCTCAAGGATATATCCATATCGATATGTCAGG
 AATGGAAATCATGATCTTTAGTCTGTGCATATATGCTGATCGGAAATCGGATCGGCA
 AGTAAGTTGCGCAACGAGGCTGCGGAAGGAGTGGATACCAATCGGAGGAGCGGCCA
 ATGGTTTTATAGAATTCGTGCTGCCAAAGCAGATATCCACTAACATAGTATGTGCG
 CGCGGCAAGCGGGGACTTGACGGCGGATATGGTCTGAAGAACGGCTGTTGTTAATATG
 GTTATAGACTAACGCGACCATCTCTCATATGTTCTAGATAACGGATTTAATAAAGCG
 GTAGCGAGTTTTCGCAAACTGTCGAACTTCTGACGATTTCTTCTTTAGGAAGCATTTGC
 GCCTTTTTTACGAGAGTGAACAGCGGGTGGGCTGGGCTGCTGGTTGGTATATCTGCTT
 GATATCTTTCCAGAGTGGAGTTCGAGATTCGCAAGCTCTTTAAGGCTTGGGCT
 TTGATACGATGATGCTGCGAAGCTTTAGGACTAATGCCGAAGTGGAGTGGAGTCT
 CATACTTCCCTTACTACGAAATATTTAAATTTATATGTTACATATATATCAAT
 ATTAAGTTTTTTTTGTGTGCTGCTCAAGGAATTTGTGACAATTTAGTTAAAAATTTG
 TCTCAAACGGAAAAAGCGGTTTGTTTTTGTTTAACTTTTTATTGTAAATAATA
 AAGGTCGTCTGAAGACGGTTTTTCAGACGACCTTTTGCATATAATCGGGCTTCATCGCCCC
 GTTCGGTTGGAACTTATGAAAAACCTCTGCTCCTCCTGCTTTTCTCTCCACGAGCA
 CGCTTTCGCGCATACGGTTTGGGTTTGGGCGAGGACGGAATATCTGCGCGGCTTTC
 CGCGCTCGGTTATGTTTATCCGCGCGGCGCGCTTGGTTTTAAAGCAGAGCGGATG
 CATTAAATTAGACACGCTTTCAACGCTTTGTGACCGCTCTTCGCGCGCAATCAAA
 ACCCGCTCGGACAGGTTTCGAGCGGATACCCGCAACACACAAAGGAJAAACATGAG
 TAAAAAATCAAAGTCGGCATTTGTCGCGCGACGGGCTACACCGCGCTGGAATGCTGCG
 CTGCTTTCGCGCCATCCGATGTCGAAGTCGCGCGCTAACCGCGCGAGCGAGCGGG
 AACCGAGATTGCGGATTACTTTCCGAGTTTGGCGGCGGTGAGGCGCTGCTTCCAAAC
 CGCGCGAGGCGAGGTTTGGACAATGCGACATCTGCTTCTTCCGCAACGCCACAGGAT
 CGCATGAAGATCGAGGCTGCGGCTGATGCGCAAGGCGCTGATGATGATGCTTTCCG
 CGACTCCGATACCGGACATTCCGCGGAGCACTGGTAGGATACGATACGACCGCGCG
 CCGCGACTCGTTTCCCAAGCGGTACAGGATTGAGCGAATCAACCGGAAGCGGTGCG
 ACAGGCGCGCTGCTGCGCAACCCGCGCTGCTACCGGACTGCTATTCCTACGCTGCT
 GCCGCTGTTGCGGATATCCGCTGTGAAGCGGCTATGCGGCTGATTGCGCATGCAATC
 CGGTGTGTCGCGCGCGGCGAGGAAGGCAATGTCGTTGCTGTTGTGCGAAGCGCGGA
 CAACTTCAAAGCTACGGCATAGCGCGACACCGCGCACTGCGCGAATCAGCGAGACAT
 CGCTCGGCTTACAGAGGATCTCCGCGAGGATTCGTGTTACGCGCGGCTGCTGCGAT
 GATACGGGATATGATTTTACTGCTTTACGAGCTTTCAGAGTACAGGACGCGCGGAGC
 CGCTGCGGCACTACTACCGGACAGCGCTTGTGGACATCTGCGCGAGCGGTTCCGC
 CCGCGAACCGCGAGCTGCGCGCGGCAACCTCTGCGGATCAGCATCAACAGCGGGC
 GCAATCGATGTGTGGGCTCTCTTTCGCTCATCGCAACCTCTGCAAAAGCGGGCGGG
 TCAGCGATCCAAATATGAACATTATGTCGGATGGAGGAACACAGGCTTGGAGCG
 AATCCCTCTGCTCCCTGAAGCGCAACGCAAAACCGCAGGCACTGTCGCTGCTTTT
 GATGCTGCTGAAGAGGAGCTTTTGGTGGTGGGACGCTTTGACCCATCCATCA
 GAAAGCAAAATCAACAGGCTTCCGCGCAAGGAGGATCTGTTTATCCAG
 TTCAGCAATTCGCGACATTTTCCACAGCTTTCGATTCGTCATTTCTCGGTTTCAGTC
 ATTGCGGATACACAGGTGGTTTTCTATTCTAGATTCCGCGCTGCGGGGAATGACGGC
 GAGGGCTTGCCTGTTTTCCGGTAAATTAACGCAATTTAAATCCCATCTATTGCGGTGAA
 AACAAACCAAACCTTAAATCCCATCTATTCGCGCGAUAACAAACCAAACCTTAAATC
 CGCTCATTTCCGCGAAGAGCGGAATCTAGTTTTATTCGGGCTTCAGGATTTCCGACAT
 TCGTACGCTTCAATTCGCTCATTTCTGGTTTCAGTCAATTCGCGAATACAGCTGGTT
 TTTCTTTCTGATGCTGCTGCGCGCGGAGGCTTGGGCTTTTCCG
 GTAAATACCTGCAATTTAAATCCCATCATTCGCGTGAAGAACAAACCAAACCTTAAAT
 CCGCTATTTCGCGAAGAGCGGGAATCTAGTTTATCGGCTTCAAGCATTTCCGACAT

Appendix A

-418-

TTCCGCAAGCTTCAATTTGGTCAATTTCCGGTTTCAGTCATTGCGGATAACACGGTGGT
TTTTTATTTCTAGATTCCCGCTCGCGGGGAATGACGGCGAGGCGTTCCGGCTTTTCTCT
GGTAAGTCTTCGCGGCTTCTCATTTGCGGTTTTCGGCTACTTGGGAATGACGTGATTTAA
AATCATGAATAATGTGCAAAATAATATAGTGGAATTAACAAAACCAAGTCAGCGCTTGCC
TGCGCTTGTGCTACTATCTGTACTGTCTGCGGCTTCGTGCGCTGTCTCTGATTTTGTGTA
ATCCACTATAAATAACAGATTTCCGTTACACTTTTTCGCAATTTTCAGACGGCATTTTGTG
CTCACAGGCCAATAACCTTTCCCTCGCGGAAGGCCACTTGCCAAATGCGGTTTCAGCA
TTTCGGGTTTTTCGCTAATACAGATTCGCGGGGTTTCGCGGCTTGTTCACAGAGTGCA
GGTCTTCTTCGAGCTTTGGGCAAAACGACATAGCAACGCGCTTTTGGGCGCGCCGAGAA
ATTGCGCGGGGCGGGATGTTGAGGTTTGGCGGGCGGATTTCAAAGCGCTGGGTGTGTT
CGTAGATGACTTTCAGCGCGGCTTTGGCGAGTTCGCCCAAGGTTTCGGCAACAGGAGGA
CGCACAGCTTTTCGCGCGCGCGCGCCGACCGACGCGTAATTTGGTCAGCTGCGGCCA
AGCCCATGGGCTCGGCGTGTTCGATGACCATCAGGCGGCAATTGGGCACATCTACGCCGA
CTTGATAGCGGTGTGGCGGCAAGAGCTTTCAGCCGCCGAGAAACCGGGGCATCA
CTTGCGCTTTTCGCGCGCTTCATGCGCGCGTACAGCTGCGATTTGAGTTTCGGCA
ATGCGCTCTGAAGCGGGGAGAGGTTTTCGGCGCGGTTTTCAGTTTCAGAGGTTTTCGCTTT
CTTCAATCAATGGGCAAGCCCAATACGCTCGCGCGCTTTTTCGGCAAGTTCGGAGGACGA
AGCTTTTCGACTTTCGCGCGCGCGGAGCTTGTTCAGCGAGGCGGCTTTTAATCGGTGTGGCG
CGGGCGCAATTGCTGATGACGGACAGTCCCAATTCGGCGAAACCACTATCGCAAGCG
TGC CGGGATGGGCTGGCGGACATCATGACTGTAGACTTCGCGCGCTTTGTTTGTGA
GGGCGAGGCTTTGGGCAACGCCGGAACGGTCTGTTGCTCCCAATGGTCAAGGCCAAAT
TGTGAACGCGCAGCGGCTTGTGAACAGGGGCGTGGTTCGCGCGCGGATTTTGACGCTGCT
CGTGGCGGATTTGGGCTTGGGCTGCTTTTGGGCTTTTTCGCGCAACTTCGCAAAAGT
GGAGCAACTTCAATGCGCAAGGTTTCGAGCATCTTTTAAATTTATAAATTTGTTGCGG
CAAGGATTTTCAGTGGGCGCAATTACAGCCACTCGGCGACGGATTCGATAGCGGTCAAAG
CAGACAAGCAGCCACAATGGTTTTCGCGCTCGGCACATCGCGCTCGAGCGCGGTGCA
TCGGGTAGGTTTTCGCCCATATCGCGGCGAGTTTCGGAACACACTTTTCTTTCGCGATCGG
TCAGGCGCAACGGCGAGGGTTTGGCGCAGGGCTTGGGTCAATGTCGCGTGGCGCGCGAATG
TCGGCGCGGTGCGCGGATGACGCTTCTGTGCGCGCAAGCGCATGCAAGGCTTTCGCGCA
AAGTTTATGCAAGTTCGCGGCTTTCGAGCTTTCGAGCTTTCGCGCGGCTTCGCTGCAAGT
TCGTTGAATCTTCAGTGGGCGCAATTCAGGACACTTCGCGCGAGGTGTGGCGACT
TCAGACGGGACAGCAGGCGCATCGGCGACGCTGTCTGCGAGCGGGCTAAGCTCCAACGCGG
TCTGAATATTAACGCGCAAGTGGGCTGTTTCAAACTGTTTACGCTCGGTAACCGCGCG
TGAGGCTTTTCGCGAAACGCGCGGCTTCGGCATCGCGGATTTTGGATGAATCATCTCGT
CGCGCTAAAAGCGGTGTTGATTTCGCGCACGGCGCGATGGGTTTCGCGACGCGGCTCT
GTTTCTGATGGTGGGCTTAAAGTGAATGAGCGAGCAAAAGAGAGCTTCGCGGCGCGCT
CGCGGATTTGGAATGAGCGGCTTTCGAGCTTTCGAGCTTTCGCGGCTTCGCGCGGCA
CGGCTTCGACTTCAGCAGGACGCCAAACGCGCGCTTAAATCGGATTAATTCGCTCT
CGTCTCGTAACGACGCGGAGGTGCACAAACCAATCCACGCGGTTGAGGTTTGGGTT
TGTCGAGCTTCTTCGCGGAAACATCGGTGATTTCGAGCTGTTTCGGGTTTCGCGGACCA
TCATAGGCGAGTTCTTTGGAACGCGCTATTTCATCCGAAACAAAATGCCGCTGAA
CGGATTCAAGCGGATCGACAGCGAGGATCAAGCCCGCGGCGGCTTCGCGTTCCTGCTGT
TGTTGTAATGCTTCAAAATTAATCGGCGGAGCAGGACGGGCGAGAGCGCGCGCGG
GTTTACCTTACCGCAAGCGCTTCGCGCGCTGAAGGAGAGGATTTGGAACGCGCG
CGGAGCAGAGGCTCGGCTCTTTCGCGGATGTTTTCGCAAGCGAAATACCGCTTTGG
GTTACTCTGTTCAAAACATCTGCGGCTGTTTCACTTAATTTGGCGGTTTACGGTAACGGTT
ACATCCAGCTTGTAGTAGCGGCTTTCAGGTTTTCGCTGCGCGGTGGAAACGCGCATCTCC
ACTTCGGGCTGCGGCTTGTCCAAAAGATTTCGCGCGCGTGGCGCATCTCCAAAGACAAG
TCTTTGACATACAGTCTGCTGATGCTGAATACGGGTTGCACTTCTCGCTCATTTTGTGTT
TCTAGTTTGGGGGTTAAGGGTTCAGCAGTTCGCTCCAGCCGCTTCTCTGTCGAGGCGGT
AGAAGTGGTAATTCGCGGAGCTGCTTTCGCGGATGAATTCGCGCGGCTTCGCGGATGCT
GTCCGAAAGCTTTCGCGGAAAGCGTTCGCGGCTTTCGCGGATGCTTCGCGGAGCAATTCG
CGATATGTCGCAACCTGCGCGCGGTCAGCAGCTTTTCGCCATTCGCGAGAGAGGGCAAA
ACGACCTGTGTACGATGTAACGCTTCGATATTGGGTTTCGGAAGTTTTCGATGATA
ATCAATATGAGGGGATTTCCCTCTGTTTGGCAAGTCGGAACAGATGACGCTCAAAAGCGG
ATGTCGGGAATGTGTCAAAGTTTCTTTTAAAGTATGATAGACATTTGGAATAATTTT
TTCGACCCGCGCTGCGCGCGGAACGGATGCAAAATATTTTATTACATTTTCAGGAAAA
ACCATGTTGTGAGAGATTCGCCATCCGCAAGACATCGCGCGGCTTCGCGGAAACGATTTG
TGCACATTCAGCGCGTTCGCGGAGCGGTTTCGCGGATGCAACATCTTCGCGGAG
TGCACATTCAGCGCAACCGCAACAGCTAGTCGCGCATATCTATTTCGCGCTGGTGC
GCGGCTGTGCTGGGATGACAGCGCGGTTTATCGACATCGGTTTGAACGCGCGGCGT
TTTTACACATCTGCTGATGCTCTCAAAACGCGCGAACCCGGAAGAACCGAGCGCATCG
AACATATGCTGTTTGAAGGCGAGCTGCTGTTTGTGCGAGGTATCAAAAGACCGATCAACA
CCAAAGCGCGCGGCTTTCACACCAATCTGCTTGGCGGGCGGTTTCTGCTGCTCATCTTC
CGCAAGAGACATCATCGCGGCTGCTCAACGATCGAAGAGGATGCGGACGACGAGCG
TCGCGGAAACGCTTTCGCGGCTGCTGCGCGGCTGCGCGGCTTTCGCGGATCTGCA
CCAAAGCGCAAAACGCGCAACGACGACGCTTCAGTTCGCGCATGCTGACCTGACCAAG
TGTGGGACACATCCAGAACAGCGGCAAACTCGCGCGCGCGCAACCTGCTTTATCAGG
ATTTGCTTTTAAAGCTCGCGGCTGTTGCGGATATGTTGCGCTGCGGACGCGCAAAATCTC
TCGCTGATTCACCGTAAACCAAGCGCGCATGACGCGTTTTCGCGCAACATACGTCAAG
CGCATTTGGCGAGGATGAGCTGTTCAAGCGGCGGCGCGGCTGTTTGAACCCCAACAG
TCAGACGAGCAATAGCGCGGCTTCGACCGCGCGTCAAGCTCAACTTCGCGAGTACCT
TGATATCGATTCGCGGAGCTTTCGCGGATGACGCGATGAGCGGCTTCGCGGAGCTTCG
GCGCAGCAACTTCGCGCAACCATCTTCGCGCAACCTCGAAGCTTCGCGCAACATCG
CCCGGATTTAGGCTTACCAACTTCGCGGCTCATCATCATGCTTCATCGATATGG

-419-

[illegible]

Appendix A

-420-

GCACGGCGAGCGTCCGACCAAAATACTGATTTCCTTAGCCATAATCATCTCTCTGAA
TATTAAAGTTTGTGCGTCTCAATCATTTTATAATGATAGCGATTATATATATGTGATTTC
CCCTGCACAAACGCGCGCGCGCGCACAGCGTTCCCACTTATCCGGTTCCTTATATA
TTGCTTTTATGTATACAGATTATCTATGAATTTCCCAAAACAGCGCGCTCCCTGCT
GCTGCTTCTCGCTCCCTCGCGCACAGCGCTCGATACCGCGCGCAATTCGCAAAACGA
AATCGCGGTATATGTCGAAGAGCTTGACAGCGGAAAGTCATCATTTGACACCGCTCGGA
TGTCCCGTCAACCGCGCTCCACATATCAACCTGGTACCGGCTTTGGCGCTTCAAAAC
CTTGCGGCAATTTGCGGCGAGCGGTTTAAAGCAGTACAGCGGTAAACGCGG
CACGCTTGACGGAACATTTATTTGGCGGCGACGCGCGCCCTTTTCAATACGAAAA
CCTGCTTGATGCTCAAAACAGTTGGCGCAACAGGCATCTCAATATACGCGGACACCT
GATGCTCGACCAACAGCTGTGGGCGAAGTCGGCGAGCCCGACGATTTGCAAGCCGACAG
CGGTTGCGCGTTTATGACGCGCCCAATCCCACTATGCTGTGCGCGTATGTTATGCT
GCGCGCGCAACGCAATGCGCGCGAGTACCGCATCTCCACGATCCGCTTTGCGCGA
TATTTTGGCCCAAAACAACTTGAATAATCCGCGCTCCGAGCTGCGCTGCCCTCGATCAA
AAACATGATGGTGATCTTTTGGACATACAGCTGAATTTGGCGCGCAATTTCCGGA
GAGCTTTGGCGAGCGCTGCTGTGCGGATCTTCCGCGTACGACGATTCGCGCA
AAGTTTACCAACCACTGGCTGCTGGCGCGGACGGAATTCAGACGATACGCGATAGC
CGACACGCGGAGCGCGCGACACATTCGCGTTGCGACGCGCAACCGATGAAGAAAT
TTTGACGCGACATGAACAGCGTTGCGCAATCTAATTTGCGCGTTCGCTCTTCTCAACT
CGCGCGCGACGCGAATGCGCGCGTTCGGAACAGCGCGGCTGCGCTCGCGCGCGA
ACTTGGCGTATCGGCGATCGATTTGCGGATTTGGTTTGGAAACGGTTGGCGCTGTC
CGAAGAAAGAGGTTACGGCGAGATGATGGCGCAATGTTGAAACGGCTTATTTGAG
CCGCTTGACACATGCGGCTGCGCGCGTTCGCGCGACGAGCGGATTTACG
CAACCGCTTCAAAACAGCGCGCGCTTTGCGCTTAAJAAACGCGACCTCAACATGT
CCGCGCCCTTGCAGGTATTGGTGGCGCGCAAAACGATGCGCGGTGCTGTCATCAATCAA
CAGCGCGCGCGCTTCCCTGCTGCGAGACTTGGACAACTTCGTTGCGACCAACATCAT
CTCCGCGCGCGATGGCTGGCTGGATGCGAAGCTGATGTGCAAGAACCGCGAGCTGAAA
CAGGAAATATAGTGATTAATTTAAGGGGCTGCTCGATTAAGTACGAGCAACCTCGAT
TTTCTAATTTGTTTAAATGGACCAACACTTTTATCTCATCTGTTTAAAGCGCAAT
CGCACTCTTTAATATGATTAAGATGCTTTGGACATGCTTAATCTAATCTGGTAAAT
GAGCTTTTGGCTTTTAAAGCGCTCTCAATTCATTAATATGTTTGGCTGTCGCGCAA
AATGTGCTGTGATTGATACAAACAGGAATTTACGGAAGCTAAATGGCTAAATTTG
CGCACTCTAATACATCATAGTACGATAACAACTCCGATAAACAATACTGTCAGGTTTC
ACTTGTTCAGCGATATAGGAAATTAAGTACGCGTTTGATGATTTCGCTACTCTAACGTA
TAAACCTTACCATTTGCTTCAAAGACCGAATACGCGACTTTACCGCGAGCACCGGGA
CCGCGTTTGCTTTGGCTGTGCGCGCAAAATACCTTCACTCTGCTCTACTCTGCGATCA
AAGCTTTGCGGATGCGATCTTTTGAATATAGTATCTGACAGCTGAATATAG
GCTCGGCTATTTTAAAGCGCTCTCACTACTCTGCTGCGCTTTGCTGCTGCGCAA
ACAAACAGTCTCAATGAGTTTATTTGTTTAAACGCGCTTAGACGACTTTTCTCATAGGG
GCAACTCAACTAATTTGAATTTCCCTAGTATCTAGGACAGCGCCCAATTTAAACCG
TACGGCTGTGCTCACTTAGCTCAAGGAACGATTCCTAAGGCTGTGAAGCACCAG
TGAATCGGTTCCGTAATCTGTAAGCTGCTGCGGCTTCTGCGCTTGTCTGATTTTGT
TAATCGCATATATAAAATGCGCGTCTGACATGTTGACAGCGCAATTTTGATTTCAAAAC
GGAATTACAGCCCGCGTGCCTGCTCAATGACGCGCTTTGTGCTGCTCCCAATG
ACTCAGGTTCTTGCGCGCAAAATCTCGTAAGCGCGGCAATTTGATGAATCGGGCGCA
AGAGATCGAGCAATTGACGATGCTTTGGGCGAGCTGAAATGTTGCCCACTAAG
CAATCAGTTTTCCTGCTCATTTTGGCGGTGCGGAAGTATCGATGAAATCGAAGTGG
GTTGCGCAACGCGGATGGCTAGGAACTTGGATTGGCATTTGGTTGCGCAACCTGCGG
CGACGATGTTTTTGGCATAGACGCGAGGCTAAGCGCGGGAACGCTCACTTTGAGAG
GGCTTTGCGGAGATGCGCGCGCGCGCTGCGAGCGCGCGCGCGCTAGTATCGACGA
TGATTTTACGGCGCTCAACCGCGATGCGCTTGGGCGCGCGGATACAGACGCGCGG
TGGGTTGATCGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
TGATGTGTCGATTACGGCTTTTACGCTCTCTGTAAGCAGTGGACGAGATCTGCTGCG
TAGACAGGACGAGGCTGTGATGCGTTTACTTTGCGGTTTTCGCTGCTGCTGCTGCTGCTG
TCAGTTGGGCTTTGGCATCAGGACGACGAGGACGCGGCGCTCTTTGCGCAATTCGCT
TTTGACGCTGCATCAGGCGGTGGCTGTAAATAGTACGGAACCGCATCAGGATAGGGTTT
CTTCACGAGCATAGCGGAATCAAACTTGGTTCGCGCGCGCTGGTTCAAGTCTGATGCT
CTCGCTCTGCTCACGCTTTGGCGAGTATCCGCTTGGCGAGTATTCGCTGCTGCTGCTGCTG
CTGCGCGCGCTTGCATCAGGCTGCGGAGTATCCGCTTGAATGATGATGATGATGATGATG
CTGCGCGCGCTTGCATCAGGCTGCGGAGTATCCGCTTGAATGATGATGATGATGATGATG
TTTGGCTGCGCTTGCATCAGGCTGCGGAGTATCCGCTTGAATGATGATGATGATGATGATG
CGCACAGCTGCTGTTGACCAAGTTTTCGCGCGCACAGCTGCTTGGGCTGCTGCTGCTGCTG
AGATGGCATCAAAATGCGATCGGATATGCTGGCGCACTTTATCCGATGGCTTCGCG
ATACCGATTCCGAAGTAAACAGATATTCGCTCATTTGAGATTTTCCCTGAJAAACCAACCA
TCTTCTTCAGACGGCATGTTGATGAACATATGTCGACAGCGGGAAATATAGCAAAAT
TCCATCTATACCATCAGTTGGAAGAAATTCGCAATTCGAATGATGATTTGGAATCTCT
GCGCTGATGTTTCTACGCGTAAAGAAATTCGCGATGACGCGGTGGATGCTGCTGCTG
TGACGCAATCGCTTGAAGCGCT
TGAATTTCCCACTCTTAATGACGACGAGTCTGACGAGAAGGCAATTCGCGCAATA
CTTCCCTTTTTCAGACGGCATGTTTGGTTTACAATTCAGGCTGTTTCCCGCTTTGCGAAG
CGCATGCACTCTGTTGACCGGCTGCTCAAAATGCTCTCCCTGCTGCGGCTTCTCTG
TCTGACGACGCTGGGAACCGGCTCGGACATCTCGGTTTTCCTTTTAAAGGAAGACCG
CGCGCGCATGCTGCGCAATATGCGGCGAGCGGTTTGAACCGCGACCGCAACGCTCAA
AGCGCTTTTTCGGAAGACGCAAAAGCGGTTTGAATCTTCCCTGCGGCTTTTGAJAA
ACGGAAGACATCTGATGATGCTTGAAGCGGCTGGAACATGCTGGAACATGCTGGAAC
TTTGGACAAACAGGAAGGCTGCTATTATCAACCGCGACATCGGACGTACGATTTGGG

Appendix A

-421-

CGGACGCTACATCAGCGCAGCGCTTCGGTTCCCGGCTGACGCCATGTACAAAACGCCGCGAA
AATCAAAGCGATAGACAAATCATCGACGGCGGCGAGGTTTCGCGGCAAGGAGAAACCGC
GCCTACAGCATACAGGGGCTCAACAAATCATCAAGCCCTGCGTTTGGGCGAAGCAAC
CATCGTCTGCCGCCACCGTCCCTCCCTCAAGAAGCGGGGAAGCGCTATGGGTGGA
TTTCTTCGGCAAACCTGCTATACCATGAGCTGGCGGCAAAATTGGCAACGTCAAAGG
CGTGAAACCCCTGTTTCTGCTGACGCCCTGCTGCTGGCGACAGGTTTCGATTGCA
CATCGCCCTGCTGCAAAATTTGAAGCGGCAAAAGCCGATGATGCGCCCGTGTAA
CGCAATCGCGAATATTGATACGCGGTTTCCGACGCGATCTGTTTATTGTCACACG
CTACAAATGCCGTATCAAAATTAATAATGCCCTCTGAACAATTTACAGCGCATTTTGT
CATCTGACGATTTCCGACGCGGCGACGCGGACGGCATTTGAACGACGCGACCTCCCTG
CCCTTGCCACAGGTGATCGACCGCGCAAGGCATATGCGACCGTTTGCCTGCGATAT
CGCGTCGGCGGGAJAACACGCTGACTTTTCGCGAGCATTTCCGGTTGCGTTTGGGG
GTGCGGATTTGCAAGCTCATTTGCGGAAAGTTTCAAGGAGCTTGGCGTTTGCACGAC
CGCGCGGACGACGATGAGTTTGAACCTGTTGTCACACAGGCTTTTTCGATTTCGCG
GCCAATACATGCGATACCGCATCTGAAGCGACGCGAGATGTCGTTGCTGCTGTGCTCA
GGAATGTATCGCCCGCGTTTTCGCGCGCACTTTCTGACGCGCGGTCAATACGCGGTT
TTCAAACCTGAANAATCATCTGCAATTCGCGGAATGATCATCGGGCGCGAAACACA
AAGCTTTCGAACCTGCCCGATTCCGCAATGTCGACAGTTTTCGACCGCCCGGATACAGC
AAGCCGACAGTTTTCGCGGTTTGTGCAATGCCGCGCGGCATCATGACGCTCTCG
CCCAAAAGGCGGTATGCTATGCCCTGACCGGCATTAATCTGCGTATGCGCGCGGAA
ACCAACAGCGCGCAAAAGGAAGTCGGGTTTTCCTCGCAACAGCGCGGACAGAGA
GTGCTTCAAATGAGCGCGGATATGCTGCTGCAACGCTTTCGATGCTGCTGCTGCTG
GCTAGCTCGAAGCGCGACGCGCGCGCCCAAAACGGGCGCTCGGTAAAGGCAACG
CGCTCAATGTGCGCATACGATGCGGCTGCTGCGCGGACGACGCTTCGTCACCGGAACA
AGCGCGCGGATATGCTGCGGCTTGCCAATTCGCGCACACCGCGCGTATTCGCGCTGC
ATTGCACTTTGAGTGTGAGGCGAGTGCGCCGCAATCCAGCTTCGTTATGTCGTAAGCGCA
ACACCTGTTTGTGCTCGAAGAGACTGATCTCAATACCAATGCTGGTGTATGCTGCCGTTAA
AAATGAAACAGTATTTAGCGAATTTCCGCGACGACTGCGGTATCCCAAAAGAGCAACA
TGCGCTGTGAGGAGTGTGAGCGACTGCTGACGATGTCGAAGAGTGTGATGATGAT
GCAGCTCGCTCAAATAATATTCACCGGTAAGGCAATGCGGTTACGACAAACGGA
TAATCGCCACACGCGCAGCATTTGCGCGCGCAACGGGCAACGCGCGCAAGTCAGCGC
AAACGCGGTATTTAGGCGAGAGGATGAACGCCACGCTCTTTGGGATCCCACTCAAT
AGCGTCCCAAGCATCTGCGCGCCACAGCGCACCAAAATGTTGGCAATGTAAGAAACA
GAAAGCGGACGCGCATGCGCTTATACATCACTTCGTCGATCAATGCGACGCGCGGACCGC
ACAGTTTTCGCGCTTTTCTTCGCGACGAGGGAACAGTTTCGGCATATCCGACATGCG
CGGAATCAAAAGATGATACAGTATACAGTATGCGAGCTGCTGATCTATCTACCG
AGCATTCGAGCGCGGATACAGCGCTGATGATGATGCGCTTCGCGGACAGCTGTACG
ACAGAGCAATCAACACGACCGCGCATAAAGCGGACACGAGCGGCCCAATTTCTGTA
TGGCGAATTTACCTTCAATAAAGATACATCAGCGCGGTATCAACAAACAGGATGA
ACACTTCATACAGGTTGAAACCGGAATATGCCGCGATCGGACGAGGACAGATGCTT
CGTGCAACGATCAGCAGACCGGTAAGCGTGTATCGCGACACCATGTCGAACACCGG
TTCCCATACCCAAAGCGGTGTTGGTGGCGCATTTTTCAGCGTTGCAAAACGCGCGCG
AAATATGCGGACAGCGCAAAAGCAAGGCGCGCTGCGCATATGCTCGCGGCTGCG
TGCTGAGCAATTCGCGACAGGAAATCTGCGGATTTGATGTCGCTGCTGATCAAC
CGACGCGGATAGGCAAGCATACGCTTAAAGGAACAAACAGCGCATCGGTTTGAANA
ACCAACCCAAACAGCGCAATACCGGCACTTCGCGCACATGACGCTTTGCTAAATGT
CCATATGCATACCGGAACGGGCTGTACGAAACCGTAGCGCGCAAAACGACGACGCA
ATACCCATCCCAAGATTCAAGTTGCTGATCAAGACTTCGTAATCAGCAGCTCGGTT
CGGAGGGGTTTATAGTGTTCAGTCATGATTAAGTCCTTCGCGGCGTTGACAGCTC
TCGACGCTTTTGAATTTCTTTCGAATCCGCTGCTGCGGGCGGAGAGCATGCA
AAACGGAATTTGCTGCAAAACATATACGACGCGGTTTTCGCGGCGGACGCGGGA
AATACCTACCAATCAACAGCGGACGCGAGTCAGATAGCAAAAGCGCACCGGGGA
CGGCTCATCTGCAACCGGACGAGCGACCTCGGAACCCATCAAGTTGACAGCAGATA
GGCGGGGATATTGCTCAACCGGTATGCGCTATCTACTCTGCGACGAGGAACGATT
CGCGCTTATCTGCTGCCATTTCGCGAAGCGGTACGCGGTATGTTTTCATCCAAAGCA
GCGTTTCAACGCGGTAAAGCATTTCTGAGAAATAGCCCTGCATCTTATCTGCTGCTGT
TTGCGGATATTGGAAGTATAAATCGTCAATCCCAATAGCTTTTGTGCAAGATG
TTACAGCTTTTGTGATTTGATGTTGACGACCATTTTCAGGAGCTTCGCGGCTGCGCTG
TTGCTGCGGACAGGATCTTCCCACTTTCAAAATCTCAAGATTCAGCAATGCG
ATAAGGTTCGCGCTTTCAACTGCTTCCAAAGGGGATACGACGACAGGATTTGCTGC
TGCAAGCGCTGCGGCTGCGGCTATCCAAANAATATCTGTTCTGCAAAACGGGACG
ATATAGTTTATATTCGACCGGCTGCCCTGCGCATACCGGATACGGTAAACATGGAA
GGCGGATATTGGTGATTTTTCCTTCTGAGTACGCGCGGACATGTTCAAGGCTG
GATTTACGGCTTTTTCGCTTCGCGCGCTCGCTATGCTTCGACATCATAGAGGTG
ACTGATGACATCTTTGATGTTGCTCAAGGCAATTTCAAGGAGATTTGAGTATG
GATGTTGCTTCCACGACAGAGGTTTCGACGAGCATCCCAATTCACGCTGAT
GTCAATCGGAACCGCGCTCGCGAAATCGCTGTAAATCGGTATGCTGTCGCAAGCTC
AAAGATGTTTACGCGGATGTTGCGCTCGAGTTTTCACCGGTTGCTCTGTCGCTCACT
TCAATCTGCTGCGGAAATCAGCGGCAATCCGCTATTGTAATAATCATATGGAATTT
TTAGTTTGACTTCAAAGGCAAGCTCTGAACCAATATCCGTTTCGCGCATTCAGGA
ACCAATCTGCACTTCGCGCTCGGAAATATTGAGCTTGCCTCAATGAGAGGATTTGAC
CGCCCAAAATCTTTGGGATTTGCAATTTTGGGCAAAACCGGCTGATGTCGGAACA
ATCGACCGCTTCAAAACGAGGATCTGTAACGAGGATCTGCTATCACCGCGCA
CAATGCAATCAAGCAACATGCGCAACATATAGCCCAATTTGTTTATTTGCTCTTT
TTGGCGCAATCAAGACCGACCGCTCTTCACGTTAATGGTTTTTTCCTGAAACCTTGT

Appendix A

-422-

ACTTCCAGATAAAGTTTGGCAACCTCGGGCGCAATTTTACATCCAAACGGGAATGG
 CGCATCGCCGCCAGAGATTTTCTTAACTTTTCGGCAAAAGACTTCATTTGCGGCCAG
 AACGGCGGCACATTGCGAATCAGGCACAACCTGGTAGAAACCCACAAACATCATGATA
 ACGCAGAAACCATGCGCAAGCATAGACGTCAATACAGTCCAGAAAACCAAAATCTGCGCC
 CAAAACGATCGGAATTTGACCAAAATTAATCGCTCGCGGCTGTTTGTGCAACACGGTA
 CGATTAACCCGATGAATATCCAGCAGACTGAGCAAAAGCAGCTGCAAAAGCGATGGAGCTG
 AAAAAAGCGAACAGAGAGGGGAAGAGATGAGCGGAGATTCAGGGTTTACTCATTTGTG
 GTTTATTCGCCCATCAGAGATATGGTAAGAGCAATTTGGGCAACAGCAAAAGACGCTG
 CGATTCTACGTCTGTGATGCTTTTATTTCAAGACAATGAAGACAGCTGCATCGATCC
 AACGGTTGCGATTGAAAAAATTTACGCAAGTTGCTGCAAGCGCTGAAAACTTTTCA
 GACGGCCTCTAAAAACAGACTATTGCGGAATTAACGCAACCTTGGATAAAGTTGCGACCC
 GCTTTCAAATCTCTTCCAGACATACGGTTTGAATATCTCCATAGTGGTATTTTACGC
 TGACCGGACTGTAGGCATTCATCTGTTCACCAATATATAGCCTGATGCTGACGCCCAAA
 CGCGGATTAAGCTGAATTTTGGCTTCGCGCTCCGGCATACCGCACGCTCGGACCGTGG
 CGGACATACACCGCGCATCTTTTATCGCTCAAAACCGCGCGATGATTTTTCGACCG
 AATTGCGGATTTTCTTAGGATTGGCTTCACCGGATTTGGGCTGCTGTTTGGCATAGAA
 GCGGATCGTTCAAATATCTGATGCTCAAAATTCATTACACCGGTTTCATCAGCT
 GCGGAACCGTGGGTGCGTTTACGCTCGCGGATCGGATAGTTTATGATAGATGAAGCA
 GTATGCTGCGCGCAAAACCGGGATACATCGCAATGCGCGTGTACCGTCTGCTGATGG
 CAAGCGCACAAACCGTTGCGGCAACCTGTTTGCCTTTTCCAGCTGCTTTGGGAGAG
 GCGGAACCGGACCGGCGGCGGCAAAACAAAGGCCAATTAAGTCATCTGTTTCATGGAGTGC
 TCTTATATACGCTATGATAACGGCAACATGCTTTTATATTAATCAATACGGATATT
 TGACCGGATTAAAAAGGATGATTCTGTAAACGTGTTATCTATACATAAATTTACATATA
 TTACCATCTGTTTACATATAAACCAACCGCATTTTGTGCTCGGACAAACGGCGGCG
 GAAAAACAGGATATGCCATGAACCTTTTCAAAACGCCAAATCTTCACGACGATCAAC
 CACCTTAAGACCTGCGCGCACCCCTCTCGAAATTTGCTTTGTCGCGAGGACCAATGCC
 GAAAAATCCAGTCCCATCAATACCTGACCAACCATGCGCTGTTGCTCATGTTTCAAA
 ACACCGCGAGCGAGCAGCATATCACTTCTTCAGGCTGACAGACGGCAATTTTATGCTG
 GATTTGCGCGGCGGATGTTATTCGCAAGCTGACGAGTACCGGACATTTGGTGAAT
 CTGCTCGGGACATCTTCGACAGCGCAACAGCTTATCGGCGGCTTTCGCAATGAT
 GCGCGCATCTTTAAAAAGACGACATCCGATCGGATGTTTTCACACGACCGCGC
 AGACCGGTTGCATCTGCTGCAAAAGCGCACAAATTTCAAAAAACGACAGATAAAA
 ACCCTGCTCCAAAGTCAAAAAATCTGCTCAACCTTATTCGACAGGCAAAACATCAGCGTA
 CAGCTGTTTTCAGGCTGAAAAAACAAGGATTTGACGAGGCCAACCGACCTGTCGGAAGC
 TGGTTGAGCGCAGAGATGCGCGCGCTGCTCTCCAGAGGAAAACTGACCCCAATTATAC
 GGAACCGTATTCGCCCATCTGACGCGCGCAACATTAATAAATTCGCTCGCAAA
 TCTAAATTCGCTGTTTTCGAGCGGCTTTCGAGCGGCTTTCGCAAAAGAGAA
 ATCCAACTGCTGCTGTTGGAACCAATATTACCGGAAGCACCGCGTTTTCGCATATC
 TTGCGGACTTGTGATCGCGCGCTGCGGCTGCGCTTCTGCGCGCGCGCGCTCATCTTC
 TTTTTCGCGCTCGGAAAGTTTGGCGGCAATACGCGTTGTGTCAGCGTCAAGCGCGGATC
 GGTATACATAGTTCTTCATATAGTATTGCGCATTTGCTGCTGACACAGCTTCAGGAT
 TTTCTCCGCTTGCGCTGCTTCTGCTTTCAAGCAAAACGATATAGTCAACCGAAACGG
 CACCGCAATGTTACGCGGTTAGCGCACACGCGCATCTTATAGTTTGTGGAAGCGGAT
 ATATACGCGCTACCATCATCAGGTTTAAACCGCAACACCGCATCTTATTTGTAAT
 GCTGCTACCGGTTTACCGGCAATACGCTTCTGCGCAACGACGTCGCGCGCTTGCGGT
 ACCAACCGGACCATCTCTGATATCTTATACATTAATAGGCTTTGCGCGGATGGAT
 TGCTGAGGCGCATTTTGGCGGACCAACAAAGTTGCAATTTGGGCGGCAACCTGCGGCTC
 TCTGTATATAATCTTATGATATTAGTGTGGAAGAACCTTATTCGCGGTTTCGCAAAATAC
 GCTATATCGCTCGGCATCTTCAACGGGCTGTGCTGCGCGGTACATAAGCGCATAGACAG
 GCTTGGCGGAGCTGCGGCGACCTGAAGCGCAACGCGGATATACTGTGCGCGGTAAAC
 GACGACATAGACATCAAAATGATGGAATGAACCAATCTTATTTGGAAGCTCTGCGGCTG
 CTCAAGATATATAGCGGATATCTGCGCTGATGCTTATGCTGCTGCTCAACCGGACG
 GTTTCGCGCTTTCCCGCGAGGAAATGCGCGCATCTTAACCATGTTGAGCGCGGTAT
 CCGCTTAGATTAATGCGCGCAATAGACAAACGGCTTAAGGTCGAACCGGCTGCGCGAT
 TGCTGGAAGCGGACGATTGAATGTTTGTGTGAATATCAACCGCGGACGCGGCGG
 CACAGCTCGGTTTTCGATCCAGCAAAACGACCGCTGACGACACGCGCTTGAAC
 CACCGCGCAACGCGCGGCTGTTTGTGACACGATGACCGCGCGCTGCGGATAGGCTC
 CTCCCAATTTTTCATATTGACCGCGGCGGCGCAACCGGACGCGGCGCTGTGTAAG
 CTGAACCGGCTGCTGAGTATGACGACATCTGCTGCTGCTGCTTATGACGATGCA
 CACACGCGGGAACCATTTATGCGAGGTATAGAGTCCGCAACAGATAGTGTGACAGT
 CTCCTGCACATCTTCACTCTTACTCAATGATATAGTTTTCGCGCGGAGTGGCTGCT
 GCGCGGATCGAAATTCGCTAGAGCTTGGCAATGCTCGGTTGCGACCTTCTGATGATC
 GCGCGGACCGTGGTATAACCTTAAACCTCGGTATAGGCATCTTCACCGTATTTCTC
 ATACAGTTCTGACGCGCATTTTCGCGCACATATAACGACATCTGATGATTTTCGAAAC
 AACCGCTGTATGAGTTCTTCAATTCACCGCTGATGCGGCTGTTGACAGGTTATCAT
 CTCTCTGCGAGATGATCTTCAATATGCTTGGCGGACCTTGGCAGCTTGGATTTGGAAT
 ACAATCGGATATAGCGAGACGAGCTTGGGCACTCGCGCAAGCATGGCGGCTTCGCGC
 CAAAGTCAAACTCGGACATCTCTATTGAAATAGATTGCGCGGCGAGTCAAAACCAT
 GCGCGCTGACGAGGTAAATCTGATTGAAATACAACTCGAGGATTTTGTCTTTGCTTAA
 AGACTGCTGATTTTATAGCGAAGCAACATCTGAATTTGCGGTGAACGTTTTC
 ACTGCTCAAAATAAAATTTTGGCCACTGCTGGTAATGCTACTGCGACGCTGAC
 GCTGCGGACGACGATTTGCGGACGCTGGCGGACCAACCGCAACATCTCACCGGCA
 ATGCGGTTAAACATGATCTGCGGCGGATGCGGACGATCTGCGACGCTGCGGGA
 ATGCGGATTTTGTAAATTCGCGCGCTGCTCCCATACATACCGGATCTCCGCG
 CGCGGATAAATAGTCAACCGGATTTAGCTGTGATAGCTGCAAGGATCCAAAGACGG

Appendix A

-423-

CAGTTTCGGATTCGTTACCAAAATGCAATGGCAACCAACCCACTCCAAATACACAAA
 CCCAAAAACCAACCAAAACCAAGTCGTTAAATCTTTTAATCATAGCTGAATATTAAT
 TACCATTATTTGGTATTAATATAAGTAAATAGCAACCGGATTCACAAAGCACGGTTTCA
 ATGTGCAAGAAACAGGAATCCATTACGGATACCGAAACGGTTACTCACTGACAAATAA
 AGCAGGAACTTTCATCATGCGCTTGTAAAAAGCTTGA AAAACCCCTAAAAAACAGATGC
 CANGCTCCCTAAAAAATCTTCGGGACCTCAATACCGCGCGCAATCGGCATCGATATCGA
 CAGATTCCTTAATACCAAGCTCAATTTCGACGACGTATTAACCAATATCAATTGGGA
 AAAATAGCTCATTCGCCAAATACCAAAAGATTCATTCAAGGCAATAAAGTCAAAATTA
 CGATCACTTGTTCATATTTGCAACAGGCTATGCAACCTGGGTACTTCGTGCAAAAA
 CATCATCGGCTCGCTCCGCAAAATTTGGCAACCTCGAACAATTGACTACACAGACAA
 AGATGCAGAAATTAGACTGCAGGGGTTCTGGAGGCTCCTCATCTCCGAATCAGCTCGAT
 ATCGCTCGAAGAACCAATTAAGCATACAGCTCTTGTGCCAATCGCGCCGCGGGAAGC
 TGTGTTGGCGCTCGCATCGAGAAGATGAAATCGAACCCCTGATTGACGATTCACGGC
 CGCGGGATGAATATTCGCGGCTTGATGTGACATTTTCGGACATACACAGCTCTACGC
 GCTATGATAAAAGATTTTGGCGGACGCTTCACGCGAAAGATCGCATTTTCGGCT
 ATATGCCGACAGACTACGCTTGGTTCATCAAGACGGAAAAATCTCTACAAACAGGA
 AACCTCCGTCAGCAAGAACAGCTCAACCACTCATTCAGCGCACCTATCAGGTAAACA
 AGAAAAGCGGAAGAAATCATCACTCCCGCAAAACCTTCGATTAACCAAGAAAGCT
 GGCNAACATTATTAACCAAGCATATACCCAGAAATACAAAGGTTCTTCAGTTTATTATA
 CACCAACCGCAGCCGACAGCATCGGACATCAAGCATATCCTGCTGACCGGGGAAGC
 GCGCGCCGAGGAAGGATCGGCCAAACCGTCGCGCTCAAAACCAATCGATTAACAATG
 CTTCTATCCGCGCTTATTTTCGGCAACCTCAAAACAGACAGCAATTCGAAT
 TGATGCGCGACACTGACAGGGGCTTGGTTTGGCGTACGGGATTAATAATTATGAAC
 AATTTAATCAAAATCAACCTCCTCCCTACAGGGAAGAGTGAACAGCGCAACACAGCAG
 CAGTTTAAAAACGCTGATGTACGGTCCGCTGCTGACGGGCGTTGCCGCGTTGCGGCAAC
 TACCTGTTTATCGACAATATGATCAATACCAAGTCGGAAGAAACACGCTGCTGGAAC
 TCCATCGCACACTTGAATACCGAGCTTCGGAATACAAAGCTCAACAGGAAAAAGAT
 GCCTTCTGATTAGAAAAACAAATTCGAGAGCTGCTCACTCAACCGCTTCAAGCGCA
 AAAATCTGACAGAGTGAATAGGGCTGATGAGAGTGAAGAGAGAGAGTGAAGAGT
 GCGTTACCGCGCTTATTCGCGCTCAGCGGAGGACTCAAGACACACACCGCTGCTG
 GCGATGATGAGGGCGATGCCAATACCGGCAATTCACAGCAACCGAATTTGAAGCATC
 AAGAAAAACAATTCGATCAAGAAATTAACCTTCAGGCAACATTACAACCATCGTAAAG
 GCGGCGGAATCAAGAGAAATCGGCTTCGGGAACGCGACAGGAGCAACCTGATGAGCT
 TCTAAATCATCAATCAACCACTTGGATTCACCAACCTTCACCTGCTCAACCTTCTCGC
 AGGCTTTATCGGCTGCTGGCGCTTTCGCGCGTGTGGGGCTGGTTATTCGCGATTG
 TTTAAAGAGCAATGGATGCTTGGAGATGAGAGTGAAGAGAGAGAGTGAAGAGT
 ACTTACCAAGAGAGATTCAGCGCGCGCTGACCAACCTCAGGAGCAACCTGCTG
 TCAATCCGCTCTCGCTTCGATATCATGTTGAACAGCTGCGGACAGATCGAATTCCTC
 AATCTGGTTCAAGAGCTTCATACGGCAGGTTTCAGACACGCTTCGCGCTTGGACAGCGT
 ATGCCCAACCTTCCTGAGATGACGGCCCATCAJUGATTACCTATTCCATTCCATT
 ACCGGAATTAACGAACAGATCAGCAATTAACCGCGATTTCGGCAGCTTCCCGGAATC
 ATTACCTTGAGTCGTTGAATAATCGCCCAATCTCGGGAACCGGCGCAATCTGACGGC
 AGAGCAGCATCTGAACCTCAGCGCATTCGACACCATCAACAGCAATTCGAGAA
 GAGCTTCGCGGAGAGCGCAAAATTCGCGACAAATATGTTAGCTTAGGGAAATCA
 TGAACACTATGCTTACTCATCAGCTTCTGCGCTCTCGCGGTTCGCAAGTTCG
 AGGACCTAAACGAATGAGTGGCACAAACCGCAGCGGAGCGCAAGCAAGCAATCATACCT
 TCCAAGCACTTACCTCGCGGTTGCGCGGTATACAGCCCGCGCGAGCTTACAGGGCGA
 AGCATTGCACTTCGCGCGATGGAACCGCAAAAAAGGGGAAAAATCGCCCGACACCA
 AGCGATTAAAGAAACGCTGGAATAATTCAGTTTGAATAATATGCGTTATGTCGCGATT
 TGAAGTCGCGAGAGGATTCGCGGCTTCATCGAGCTGAAGGTATGTTTCACTGCTGG
 TGTGCGCACTTCGCAAGCTGATGAGATGAGATGAGATACGATACCGGACAGCAAT
 TCGCTTCAGAGGCTAATGAAGAACACGACGGCACTGGTTTCGCGCAAGAGCAAT
 TGCTGTTGAATCTTCGCAAAAAACACCGGAACGCGGACACTGCGCGCAACAA
 ATTAAGAGAGGATTACTCCATTATGAATACCAACTGACAAAAATCATTTCCGCTCTCT
 TTTGCGACAGCCGCGCTTTCAGACAGCATCGGCGAAGCAATTACAGACATCAAGATT
 CTTCCCTGCGCAACCAACAGAAATTCGCAAACTCAGCTTTGACAAAGAGATTGTCACAC
 CGACCGGCTTGTGAACCTCTCAACGCGCGCATCGCTTGGACTTTGAACAAACCGGCA
 TTTCCATGATACAGCGGATCTGAATATGCGGATCTCTGTTGAGCAAAATCAGCGCG
 CACAAACAGCACTGCTGTTGAATATGAGATGAGATGAGATGAGATGAGATGAGAT
 CGAAGTACGCGGGAACAAGTTTGATATTATTAACGAATCGAGGATACCGGTGCG
 CCGCGCAGCGCGCGGCTAAAAAGCGCGCTTCGCGCACCGGCAAAACACAGGCTGCG
 CACGCTTACCAAGTCGCGAGTATCGGTATCCGAACTTTACCGCGCAAAACCAACAGG
 CTGCGCAACGCTTACGAGTCCGTAGTATTCGTTCCGCAACGTTACGCGCGCAAAAC
 AACAGCGCGGCGCATGACGAAAAACACAGGCGGCGACAGCAACCAACAGGCGCGCAG
 CACCGCAAAACACAGCGGCGACACACAGCAAAACCAACATATGATTTCGCGAAG
 AGCGCAAAATTCGCGGATTCGATGAGATGCGGATGAGTTGCGTTCGCGGCGCGCA
 TCGCGCAACAGCAGCAACCATCATGTTACGCTGAAGAAACCATACCTTCGCGACACG
 TCCACGCGATTTGATGTTGCGAGCTTTAAACACCGGTTCAAAGGTTAGCTGGAAC
 GCCTCAATACGACACCGAGTATATCAACAGCGCGCACTGGGAATCGCTCAACA
 AATCGCGCGCGCGGATACTTTTACCTTCCAACTCTCGCGAAAAAACCAACCTCGAGT
 CAGGCGGCGTGAACATTCGCGCGCAACCTTCAACGCGCGGAAATTCCTCTGACTTCCA
 AGATGTGAATTCGCGACCTCGCAATTTTGGCAAGAAATCGGAAGTGAACATGTT
 GCGAGGCTCTGCGCAATGAGATGCGCTTCTTCTCAAGATGATGTTGCGGATGAG
 GCTTTCGATTGCTTTCGAGCGCGCACTTCGATATCGCGCAGCAAGGAAATTCGCT
 AACATCGCGCGCGCGTACGAGCTGCTTGCACAGCAACAGCCCTTTCAGGCAAAAA

Appendix A

-424-

GACATTGCGGATTTGGTGCGGCTGTATTCCCAAACTTCACGTGAAATCAAAAATCTG
 GAAGAAATTCGCGAGCATCTCGCTTTGGACAATGCCGACAGCCGGAACCGCAACAGC
 CTTATCAGCGGCGAGGGCAGCGTGCTGATCGATCCGCGCACCAACACCTGATTGTTACC
 GACACCGCGACGCGTATCGAAAAATTCGCCAACTGATTGACGAATTGGACGTACCCGCG
 CAACAAGTGATGATTAGGCGCGGTATCTCGAAGCGCGACAGCGCTTCTCGCGGATTTG
 GCGCTTAATTTTCGCGCGACGACGCAAGAAAAGCTGAAAAATGATCAAGCGCATTTGCG
 TCGGGGGTAACTTCGCGCTTCGCGCGGCGAGCATAAATGCGGGGCGCAACCAAAATCAAC
 CTGCGGATTAAGCGCTGCGGCAAGCAATTCGCTGCGCGGCGATTTCTCGCGGTGCG
 TTGAATTTGGAATTCGCGCATCGGAATCGCTTTCAAAAACCAAAACGCTTGCCAAATCG
 CGCGTGCTGACCCAAAACGCAAAAGAGGCCAAATGAAATCGGTTACGAAATTCCTTTTC
 ACCGTAACTCAATCGCGAAGCGCGGACGACGACCAACGGAATCAAAAAGACCGCTC
 TTGGGGCTGACCGTTACGCGGAACATACGCGCGGACGCGCAAAATATTAGCGCTCAAA
 ATCAACAAGGACTCGCTCGGCAATGTCGCTCGGCTTAATCAGACAGATCTGCTGTATTTCG
 ACCAAAACTGATTAAGCGGAGCTATGCTTGAAGAACGCGCGGCAACTGATTGTGCGCGCT
 ATTTATGAAGAGACACGCGCAATACCTCGACCAAGATCCCTGCTGTGCGGCAATTCGCG
 GTTATCGGCACTCTTTAAACACGCGGGGAAAAAACCGACCGCGCGGAACTGCTGATT
 TTCATTACCCGCGAGGATTATGGGTACGCGCGGCAACAGCTTGCGCTATTGATCGCTCAAA
 ATAAGGGCATATGTTTACCGCATATGCCCTTCTTTATGCTTTTTCGCGGACCGGAAAT
 CGCGCTATTCCGCGGACGCGGGAATCCAGTCCGTTCACTTGCGTCACTTTTCGCTCAAT
 TCCGATAAATCTCTGCTTTTCACTTTCTGATTTCGCTCACTTTTGTGGGATGACCGCGG
 AAGGGGTAAATCTCAACAACCAAGCTCGTCACTTTCCACAAAAAACAGCAACCGCGAA
 CAGCACTTAAACACCTCTATTTCGCGCGAGCGGGAATAGCTGCTGCGTTCAAGA
 ACTTATCGGATAAAGCGTTTCTCCAAACCTCGCGTCTAGATTCCCACTTCTCGGGAAAT
 GACGGGATATGGGTTTCTGCGGACGTGTTGCGATTTCGCGCTCGCGGGAAATGACGGC
 GACAGATGCCCAACGCTCTTTATAGTGATTAAACAAAATCAGGACAGGCGACGAGGCG
 GCAGACAGTACAAATAGTACGGAACCGATTCACTTGTGTTTCAGCACTTAGAGAAATCG
 TTCCTTTGAGCGAAGCGGAGCGCAACCGGCTACTGTTTTGTTAATCCACTATAGTATT
 GATAAAATATTATCTTCAATATATCTAATTTGATAAATGTTTACCTAAGCAAGATAAT
 TGCTTTTCTCGACAATAGTGAAATCAACGGAATGTCAAAACACAGCTGAAATAAAA
 AACCTCCCTGATGATGATGATGCTTAAATCGAATGCGGCGGCGGCGGCGGCTGCTA
 TTTTCCAAACGCTACCGCGCGCGCTCGGATTCGATAAAATTCGCGCGTACCCGACAA
 CGCCGAAACCGCTGCGCCCGAAAGCGCGGCTGCAACAAATAGGAATTTGATGAAAAA
 CTTTAAACGCAACTCATCTCATCGGACTGATGCGCGCGGCGGCAAAACGCTGGCGCG
 GCAAAATGGCGGACGCGCTGGAATACCGTTTACGACAGCGATCAAGAAATCGCGCGACG
 CGCGCGGCTTCCATCCCGCACCATATTGAAATGGAAGGCGAAGAGGATTCGCTTCGCG
 CGAAACCGGCTACTCAAAAAGCTGGTTATCTCGCCCATATGCTGCTGTCACCGCGGCG
 CGCGCGGCTGTTTAAACAGGAAACGCAACCGCGCTTTCGCGCGCTGCTA
 TCTCGCAAGCTCGCGATCCTTTGCGGAAATACGCTGAACCTTACGCGGACGCGGACCGCGT
 TTACCGCCAAACCGCGGACTTTACCGTAGAATGCGCAAACTCGCGGGAACCGCTGCAAC
 CCGTGCATAACGCTTATCCCGATAAACCGGATATGCGCGCGGCCAGAAACCAAAACG
 CGCCCGCGCGCGCGCGCGCGGTTCAAACTTTAAGGAACCAAAATGAACCACTGACGCG
 TACACACCGCTCCGACAGCTACCCATCTTTATCGGCAACGAGCTGCTCGCGAGGACG
 GACCGCTCTCAACCGCATTTGGCAACCGCGCGCATATGCGCACGAAACCGCTGCAAC
 CGCGCTCTACCTCGCGAGCTTCAGAGCGCATGGAATCGGCGAGCGGTATCCCATTTCA
 GCATATCTCGCGGACGCGGAGCGGCACAAAACCTGGCAGACGCTCACTCATCTTTG
 ACGGGCTGATGCAAAACCGCGCGAAGCGCAAAACCACTAATGCGACTGGGCGCGCGCG
 TGATCGGCGACATGCTGCGCTTTCGCGCTGCCACTACCGCGCGCGCGACCGCTCTGCTC
 AAAATACCGACCACTGCTGTAGTCAAGTTCGACTCTCGGTGGGCGCAAAACCGCATCA
 ACCACCGCTCGGAAAAATATGATTGCGCGGTTTACACGCGCGCGCGGCTGCTTCGCG
 ACTTCGACAGCGCTGCTGCGCGCGCGCAATTTGCGCGGCTATGCGCGGAGTTCA
 TCAAAATACGCGCTGCTCGGCAATTCGCTTTTGAATGCGTGAAGACAGATATGCTTTCA
 AACTGATGACGCTCGATCGGAAAAACCTCGCCCAAGCGGTGTACCGCTGCTGCCAATGA
 AGGCAGACATCTGTCGCCAAGACGAACCGCAACAGGCAATACGCGATGCGCTCAACCTCG
 GACACACCTTCGGACACGCCAATGAACCGGAGATGGGTACGGCACTTGGCTGATGGAG
 AAGCACTCGCGCGCGCTGCTGCTGTTGGCGCGCGGTTTGTGCGAACACTGGGCAAAACCT
 CGCGCGAGATACGCGCGCGGCTGCGCGCGCTGCTGGAAGCGCGGAGCTCGCGCGCG
 CACCGCTTTGCGTTTGGTAAAGAGCTGGGAACATGAGCGACATGCAAAAGCTACCG
 GCGGATCAAGCGGCTGCAACCGCTGCGGCGCGGCTGCTGGAATGCGGCAACCTACGAAT
 CGSACAGGACATCTCGCGCGACCTGCAACCGATATCTGATTTCCTCTGCGGATGT
 GCTCGCGCGCGGTTTGAACGACGATGATGATTTCATCATCTTTCTCGCAAAAGCGG
 GAATCCAGCTCGCTTTCGCTTTCGCTGTTTCGATAGTTCGCGTTCGTTTTCATTTCTAG
 ATTCGCACTTTCGTGGGAATGACGCGCGAGAGGTTTTGTTGTTTTCGGAAGATTTCG
 AACCTAGAAATCTGCTTATTTCCAAAAACGAAAAACCAACGACGCACTTAAACCT
 CGTCACTTCGCGGAAAGCGGAACTCGGCTCGGTTTCGCTTTCGCTTTCGATAAATCT
 TCTGCTCTTTCTGTTTATGAAATTTCCCAATTTGTTGTAATGGAAGGAGGTTTGTG
 TTTTTCGATAAATCTTGAAGGATGAAATTTCTATAGTGATTCACAAAAATCAGGACA
 AGGCGACGAGCGCGACAGTACAGATGTTACGGAACCGATTCACTGCTGCTTCAGGAC
 CTTAGAGAATCTTCTCTTTGAGCTAAGCGGACGACCGCGGTACCGGTTTTGTTTCATC
 CACTATAACGCAACCGCTGCGCGCTCATTCGCGCAAAAGCGGAAATCGAGTCGCTGCG
 TTTTCGCTGTTTTCGATAAGTTCCTGCTTTCAITTCATGATTTCACATTTTCGCGG
 AATGACGCGGAGGTTTTGGTTTTTTCGATAAATTTTGAAGGCTTGAATTCGAAATCCGA
 TCTGCGCTTCGCTGCTGATGAGATTTCCCAATTTGTAATGGAAGGAGGAGGTTTGTG
 AAGATGCGGATTCGCGCTTCGCGGGAATCAGCGAATCTTAATCTTCGCTTTTGTGTTTC
 TCTTTCTGTTTTCGAGAGATATGCGGCAAGCGCTATTTCAGAGCGGATTTTCACT

Appendix A

-425-

TCGGGGTAAATCCGAATCTTGGGACCATGTGAATCATTTGGGCAAAACCATGTGTCAAC
 TGCTGGGCGTAAGTGCATACGCCGACCGCATATTATGTTTCTTGAAGGCTTCCGGC
 CGAGGGCGGGCATTTACGCCACCATCGCCGCGGTTTGGTATCGGCTTTTTCGAAGGCA
 AAGGCGTGGCGCTGTTCACGACGACACAGCCGAGCGTAATTCGCCCGCTCCCGACCTCG
 TGGCTGCCCTACCAATCAATCGGAACGTCATCGCATATCCGCAAGCATCGAAG
 GACAACCTCGCTGGCGAACACCATCTTTATGCGTGAATGTGGGCGGCTCATGGC
 TGTTCGCCCAACGGACATTGGATGATTTTTCCGCCAAGAGGGGAATTTTCCAAC
 CGGTGGGCAACGATTTGACGCGGGTTCGACCATCTGCAACGCGCTGGCGACCG
 GCTTTCGCCCGCTTCGCGACGACGACGCTGTTTACGCGGATTCGGGGCTGGCGACAG
 AAATCCGCAAGTTCGGGCTGTTTAACTTTATGTTTCAGACGCGATTGCGCTGTTGCGC
 ACGCCAGCAGCTGCTGCATACATCTGTCGCCAAGCCCGCTTCGGCGAAGCGGCGCTGC
 TCGACGACGACGCTGATGGTCGATTTTGGCGAAGTAACCAACGCCCTCGACGCGCTCGCG
 TTATCGCCACCTGCCATGACCGCGAGGAATCATGGTCCCAACTTGGCTGGGACGAAC
 TGGTCATGTTTCGGGGAAGCAACATGTCGCGACACGCGTCCGGAACCCGCTCATATA
 TGAAGTCCGAGAAAGGCTGGAATTCGCCCGCGCGCGCGCTGCTGCGCTCTGAACCTGAG
 ACGCATATGGAGGAGAACCGATGAATTCGCGCTTTTGGCGCAACCGGACCGCCGT
 TGGCGATTGCGCTTGATGAAGAACGACACGCGCGCGCGCGCGCGCATGCCCCAA
 CTGCGGCAAAAGCTTGGCGACGCTGAAACGCCGCGAATCAAAATGCCCGCGCTCATCGG
 TCCGCGCAAAAGACGCTGCCCTTTAATGCAACGCGCTCGCAACGACCTGACCGCGC
 CGCGCGAAATCGCGCTGACACCGGACGATGACGAAACGCTCGCGCTGACGCGAACA
 CAGGCTCTACACTTCGGGTGAGCGGACATCCCTCGCGCACTTGGCGACATGGTGGT
 AAAAGACCTGCTCCGACAGATACGGAAGCGCGCTCGTTTTCGCGCGCTGACAAAGG
 CTTCGACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 AGACTGATTTCCCCAACCCATCATGATACGGATTCCTATGTTTTCGACACAGATATAT
 CCATGATGAAGAACGCCCTCGCACTTGGCGCTTTGGGGCGTTTTCGACTTGCGCCAATC
 CGCGCGCTCGGCTGCGCTTATCGACACGCGGACGCAATTTGTCGGCGAAGGCTTCACGCTCA
 AAGCGGCGAAGCCCATGCGGAATCCACGCCCTGCTGAGCGGGCGAATGGACAAAG
 GCGCGACCGCTTTGTTACCTCGAAGCGTGCAGCATTAAGGGCGACACGCGCGCTGTC
 CGGAAGCATGGTGGCGGGCGGGCTGTCCGGCTGCTTGGCGCGATCGGACGCAACG
 GCGTGTTCGAGGATTCGCGCTGCGCTGCGCGACGAGCATCAAGAGGATATG
 GTTATCTGCACATCGAGCAAGGACCTAACCGAGGCTTCTGTGCGCATCGAAGCGC
 GCGCGCCCTTTTGCCTGCTCAAAATGCGCGCTTTCGCGGACGCGAAGCGCCCTTCAG
 ACGGACGACGCTTTTGATGATACCGCGGAGACGCGCGCTGCGCATGACAGTTTGGTGC
 CGGAAGCTGCGGGCTGTCGACCGCATCGGACGCGTGTGGCGGCAATCCCGGCTCA
 ACTCCCGCGTTTTCCAACTTTCGCGCAACCGCGACGCGATGTTTACAGCGCGCTGCG
 GCGTTCGCCCGAAGCGATTTGGTATCGGACGCGCAATTCGACCTACATCGGCACAC
 CTGACGCGCAAGCAGACGAGTCGATTCGCGGACGACGCGACGCGCGCATCTGAG
 TCGCTGCTGAAGCGCTCAAAATCGATCAAGAAAGCTTCGACGCGCTGATGCGCGCTTTCGTC
 ACGAAGTTTTCGCGCAATCATGTCGAGACGAGGCTCGCAACTACATCGCATTTTGG
 CAGAAAAATTCGCGACGCAAAATCTGCTGTACCGCTTGCGCCAAATCTCGCGAGCGGCA
 AAGACCTGTTTCCTGCTCGGAJACCCCGCGCGCTTTCGCGACGCGCTTGTGGACAC
 CGGTTTCAAGCGAAATCTCGGACACACATCAAAACGCTTTCGGAJAAACGCGAACG
 CCTTTAAAGGGTTTGGCGGCTTTCACATATAAATAACGCCGATAAJAAAGCGCGCGGT
 CAGACCGCGCGCGCGCGCAAAAGCGAATCGGACGCGCGCGCGCGCGCGCGCGCGCGCG
 ACGGCTCAAGCGCTCAAAATCGATCAAGAAAGCTTCGACGCGCGCGCGCGCGCGCGCG
 CGCGCGCGCGCGCATCAAAATGACACAAAGAAATCTCGGCTACGCGGACGCGCTC
 GATCGGACGCGCGGTTTACCGCTCATCATCTCGCGCGCTGCTGCTGTTTTCGCGCG
 CGACGACATCGCGCGCATCTGCTGATGACGAGCGCGCGCGCGGCTGACGGTGTGCGGT
 GTGCTCGGGCTGATCAGGCATACGTCGCGAATCATATGCGACGCGCGACAAAGACAC
 CTGTTCTAAACCGCTTCTCGCGCGCGCTGCTGCTGCGCGCGGATAGCGCGCGCTGCT
 GTTTCGCGCGCGCTTCTCGCGCTGGAATCTGTTTTCATCGAGCATGCGCGCGCGG
 CATCGGCTGGTGTGTTGAACTGAGCTGCTGCGCATGCTGTTTTCGCTGTTTTCGCTGTT
 GCTGTGGAAGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GACCGCGCTTACGCGCTGGCAACCTTGCGCCCGCGCTTTTCTGCTTCTAAAGCGG
 ATGCGCTGTAAGCGCTCGCGCACGACCGCTTTCGCCCGCGCTTCGACCGGGGCT
 CGCTACGCGCATGACCATCGCATGAGCAGCATCGCTATTGGGGGCTGGCATCCGCGCA
 CGGTTGTTCTGAAGAAATAGCGCGCTGGAACAGCTCGCGGCTTTATCGATGGAT
 TATGCTTCGGGGGCGCATATATGTTTCAACAGCTTTTCGACGCTTCGCGCGCAT
 TTTTTCGCGGCTATCGAAGAAACCGCGCGCGCGCGCTTCGCGACGCGAGAAAG
 GCGCGCGCGCTGCTGCTGCTCGCGCTGCTGCTGCGCGGCTTTTCGCGCGCTGCGCTC
 CTCTCTCTGCGCGAAACATACCGCGCGCTGCGGCTTATCGTGTATGCTGATGCTGCTGCG
 GCGCGCTGTTTGCACGCTGGCGAAATCAGCGGCTCGGTTGAACGCTGCGCGAAGAC
 GCGCGCGATCGCGCTCGCACCTTGGGCGCGCTGCGCGCAACGCTGCTGCTGCGGGCT
 TGGCTGCGCTGCGCGCGCGCGCGCGCGCGCGGTTGCTGCTGCGCGCTCATTTGCGT
 GTTTTTCGCTTCAGACCAAGCTCTGCGCGCTTGGCGCGCTTCAAGCGCTGCGCGCG
 CTCTTATCTGACACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCGCGCAACTTCCCTGTTTTCGCGCGCTATGGCGGATCATCTGCGAGCTGCATCTCT
 GCGCGACCGGAAGATTGACACAACTGTTTATTATTGAAAAACAGGTTTCCCAATT
 ATGAAAAATGTTTTCACACATCTATGGCAGGCTTGGCGCGCACGGGACGATATCATCG
 ATTGCGCAATGGCGTGCAGAAACCAACCGCTTCACTCGCGCAAACTCTCGCGCGCTTCA
 GCGCGGACATTTCTATCGAAAAATGTCACACCTGATTGAAGATTGGCAAGTGAATAA
 TCTTCAACGCGCTGTTGACATGCTGCTGCGCGCTGGGAGCTGATTTCCTCTCGCGCA
 GTATTTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CAGGACGCGCGGAAAGGCGGAAACCTTTAAATGGTCAAAATTCGCTTCATCGCGC

Appendix A

-426-

GACGCGCTTGATTACAGCGGCATTCCGCTGCCGACGGAGAAGCGCTGACACCGTTTCGGG
 AAAAAATCGCGTCCGCCAGTTTGGACGAACATGCGTAATTATGGAAATATCTTAAAAGGC
 GAGATGAGCGTGTGTCGGCCCCGCCGCTGCTGATGCAATATCTGCCGCTTACGACAAAC
 TTCCAAAACCGCCGCCAGAAATGAAACCCGGCATACCGGCTGGCGAGGTCAACGGG
 CGCAACGGCGTTTCTGTGGGAGCAAAAATTCGGCTCGGGAATGTTTGGTATATCGACCACTTC
 AGCTGTGGCTCGACATCAAAATCTCATCTGCGGCTGTAATAAAGTATATACAGGA
 GGGATTTCCGACGCGCAAGCGACCATGCCCTTTACAGGAAGACCGAACTCGGC
 GTCTGTGGTCGGGGCGACAGCGAAATGCTTGGCGACCTTGGCGCGCATCGGCGG
 TACAGGGAATCGTTTTCCTGGACGACCGCGCACAGGCGACGCTCAACGGCTTTTCGGTC
 ATCGGCACGACGCTGCTGCTTGAJAAAGTTTATCGCCGAAACATAGCAGCTCGCGCTG
 CGCTCGGCAACACCGCATCCGCGCGAAATCGCGCAJAAAGCGCGCGCTCGGCTTC
 CGCTCGCGCTTGTGGTTATCCGGACGCGGACGCTGCTGCTTCTGCAACAGTCGGACAA
 GCGAGGCTGTTATGGCGAAAGCGCTGTACAGCGACGACGCTATTGAAGACGCGGCTG
 ATTGTGAACATCTGCGGCGGTATCAGCGCTGCGCTGCTTAAGCGCTTGTGCAACATC
 AGCGACGCGCGGCACTGTCCGGCAACGCAATATCGCGAAGAAAGCTGTGATAGCAAG
 GCGCGCTGACGCGCCAGCATCTGATCGGACGCGGCAACCATTTGGAAGCGGGCGCA
 GTCGTGTACGCGACGTTTACAGCGCATGACCGCTCGCGGGCAATCGCGAAGCGCGTG
 CGCGCGAAAGACCCGAGACCTGCACGCAATAGCGATTAAATACACCCCGTACAGAC
 CGATTTTGCAACACCTCGCGCGCGCGCGATCTTCTGGAAACGCGCCCGCTTCAGAGC
 GCATAGGGTCGGAATCGCGCTGAAACCGCAGCGACCAACCTCATGTCGACCATTTTC
 CTTTCGCGCGGCTGCTTCAACCGACAGAGCGCGATGCTGCTCAAAAGCTCTTCG
 TCAACAAAGCTCACTCTGACGCAACGAAATCGCGGAATTTGAJAAAGTTTGGC
 GCTTTGCCGCGACGCGGTACGCGCTGCCCTTGCCACCGGCACTGGCATCGATGTC
 CGCTCAAAAGCAATGGGCATAGGCGCGGGCGAGATGATTGTTTACTCGCGCACTTC
 CTCGCTTCGCGCTCTGCATTTGTGAACGCGGGCGCAACCCGCTGTTTGGCGATGTGGAT
 TTGAACAGCAJAAACATCAGCGCGGAAACGCTCAAGCGCGCTGACACGCACTACAAAA
 GCGCTCATCTGCTGCACCTCGCGGATATGCCGCGCAATGGACGCGATTATGGCTTTG
 GCAAGAGACATTAATCTTGGTGAATCAAGAGCTGCGCAAGCTGCGGACGCGGCGAAAGC
 AAGGCAATCTGCGACGCAACGCTGTGGCGCTGTGGCTGTGGCTGTGGCAAGCAAA
 ATCATGACACCGCGCGCGGAAGCGGATAGTTACGACCAACGACAAACCTGTGGGAA
 AATATGTGTGTGTACAAAGCACCGGCAAAAGCTACGATGCGGTGTACACACGACACAC
 GCGCGCGGTTTCGCTGGCTGCACGAAATTTGCGGCAACCATGGGCTATGATGGAATG
 CAGCGGCTCATCGGACGATCCAGCTCAAGCGCTCGCGCAATGGACGCGCGCGCGCA
 GAAACGCGCGCAAGCTGGCGGAAGTTTGGGCAAAATCAGAGCATTCGCTTGTGGA
 GTGCGGCACTACATCGACGACGCGCAATATGAGCTTACGGCTTGTGCAACCGCAACAC
 CTCJAMBGGCTGCGGCGGCGGCGGATGTCGCGGACGAGCAAGCGGCAAGTCCG
 TGCTATCAAGCGAGCTGCTCGAGCTTATTTGGAJAAAGCTTTCGACACACCGCGTGG
 CGACCGAAGAGCGTTTGAACAAATGCTGTGAGTTGGCGACACGCGCTGATGTTCTTG
 GTGACCCGACGCTGACCGACGACGAAATGCGTTTTCGAJAAACACATCGAAGCGCTG
 TTGACGGAAGCGGCAAGATAACCTTCAGACGGCATATGCGCGCTGAJAAACGATACCG
 CCCAGCATATGAATCTGGAACCTCTGATCGCCCTGCGCGCGACATCAGAAATCTGTT
 TCCCTATACAGATTTTGTGATGTTTCAATGCTTTTGGGTCACCGAAGCTCAAMG
 CGCATCTCGGAGATGCTGATTTTCCCACTGGCGATTTTGTGCACTGCT
 TGCTGACCATCAATTATTAATCGAAATGGGCTTTACAGCGCGTTACACGCTTCGTCA
 GCTTCGCACTCTCACACGCGACTGGCGGCGAGCTCGCTCGCGCTGTGTTTTCG
 TCAATACGCTGATATTTGAAGAAAGCGTGCCTCGGCCCTGCCGATTGTCTATTTCTTAC
 TGCTGTTGTTTTCGTGACCGGCTCGCGTATGTTTTCGCGGCACTGTTGTCGGAACACC
 CCAAAACAGATGATCCCTCTCATCATTTACGGCGCGGACGCTCGGCGACACAATGCT
 TTGAGGCGCTCAAAACAAATGCGGCAATTTCCGCGCGCGCTTTGTAGACGACGACCGCA
 AACTGTGGCAACGCTCATCTGACGCTTTCGCTTTACAGCGGCTGACATGCGCTTC
 TCATGACGCTTCGCGCTCGAAJAAATGCTGCTGGCATCCCGCTGACGCGACGAGAC
 AACCGCGCGCAATCATCAACAACTGGAGGCTATCGTGCGAAGTGTGAOCATTTCCG
 GAATGAAGACCTGTATGACGGAJAAATCAGCATCGGCGACGCTCAJAAJAAATCTCTGTGT
 CGGACCTGTGCGGCGTATTCGTCGCGCGCGACGCGCTGATGAGTGCGGACATCG
 AAGCGAAACGCTCATGTAACTGCGCGCGCGGCGCTCCATCGTTGCGAATCTCGCGCG
 AGATTTATCGCGCGCGCGCGGAAAGCTGCTGCTGTGAGTTATCGGATTCGCGCTGT
 ACGCATCAJAAAGATATCGCGAAATCTGCTTCAJAAAGCGCTCGACAGCGAAATTC
 TCGCTTCTGCTGCGCGCTGACGCGCTGACGCGCTGCTGACGCGCTGATGAGCTGCT
 CGATGCGGACGCTATCACGCGCGTGCCTCAACACGCTCCOATGCTGCAATCATCA
 CCGTGAAGGACATCGACAAACATCTTCGGCACACTCGAGTGGCGGCTTGGCGCGACGA
 CATCGGCGTGAJAAATTTGCTCTCATCTCCACGCAJAAAGCGCTGCGCCGACCAACA
 CCATGGGTGCGACAAACGATGCGCGACTCTGCTTCAGGCACTCGCGCGGAACCG
 GRCAJAAACCGGCTCGACATGGTAGCTTTCGGCAATGTTTGAAGTGTGTCGCGCTCG
 TTGTCGCGCTGTTTGAJAAACAGATTCGCAAGGCGCGCGCTTACCTGACCGACCGCG
 AATTCACGCTTCTGAGCAACGCTACCGGCGCGCGCTGACGCGCTGACGAGCGGCA
 CGATGCGTACGCGCGCGCGAGCTATTCGCTCGCAAGTGGGTAATCCGCTGCAATCATCG
 ACCTTGGCGCGCAATGATTACCTTAAGCGGCTCAJAAACCAACACACCGCAACACCG
 ACGGCGACATGCAATCTCATTTACGGGACTGCGTCCGGAGAJAAJAACTTACGAAGAGC
 TGCTCATCGGCGACACTCGCGAAACCGGCACTCGGCGCATCATGACGCGCAACGAGA
 CCATGCTCGCTGCGACGAGCTCTCGCGCTGCTGACGCGCATCGTGGCGGCTGCGAC
 GTTGACGACAGGCGAATCGCGCACTGCTCATCAACGCGCGACGCGCTTGGCGCGGA
 CGCGCGGCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG
 CTTGACGACGACATACGCAACACCAACCTTACGACGACGAGGTAATGCTGAGCGAG
 TTTCTACGATTCGGCGAAAAATTCACGCAACACAGCGGATCTCCAGATGATGAGGAC
 CTCGGGCGACGCTCAAAAGCGACAGCCGCTCAACATGCTGCGCGCGGCAACCGCGCG

-427-

[illegible]

-428-

[illegible]

Appendix A

-429-

ACCGCGCGCGGTAGCTTGTAAATTTGGTTTTCGAAGCTTATGACAGGGTTTGCGCGTCG
CCCGACTCGATTTTGTGATGCTACACGTCGCGCTGCAATCAACGACAAACCTTCCAGA
GGACGGAAACCGCTCTTGCATACAAACCGGTTTCTGCGAGGTTTCTCGGTAAACGGAG
TGATTGAAACCTTTGTTCCGGCGCGGGCTTCTGAAGTATGCCGTTTAAAGCCAAAGCG
CGGAACACTCTAAAGCGACGCTTTTTCGAAGCTGAACGCGCTTGTTCTATTAGTACTG
CGCAACGGGTTAGTCTGCACCAATCAAAATTCGTTGGCGGTGTTGCCAAGCGCAAC
GGACGGCTGTATCTGCGTAAACCGCAAGGCTTTTGTTTATGTGCGTACCGCAACCG
GCTACTCGCGCTTCTGCGTATTTGTGAGTTTTCGCGCGCAACGCTATAATTTGGATG
GCTTTCGATCGGAATAGCGATACGCACTTTGCGGTAGCGCGCTTGCGCAAGTAAATGT
TTCAATCGGCACACGCTGCTGGCTGTGCTATTAAATTTGTTCAATCGCGCGCAGACA
AATACGTGTTGCGGACGGGAGGTAATTTGTATTGGCATCGGACGGCAGCGCGTTGTAC
GGCGCGAGCGCGCTTGTGGTAAAGATAGCGCGCGCCAAACCGCTATCGGGTTGATG
TCCCAATCGCGCGCGCTAGAAAGTTTCCGCGCGGTTGTTTCTCGCGGGGACGGGA
GACGCGCGACGCTTCCGCGCTACACCGCGCGCGCTGCTCGTGTGAATGGGCTG
CCGATACGTCGCGCTGCGTTTATATTGTTGTGCGTACGCAACCTCGCGCGCATGA
CCTTGGAAACGCTTTGTCGGGCTTTGCGCACAGATTCACGATGCGCCATCTCGCGC
CTGCTGTGCAACAGTCGCTCGGCGCGCACATCTTCCAGCGGCTCAAGCGCAACAGG
TTGGGCGAGCTGCGGTTGATCTCTGCACTCGCGCGGACGGCGCTGATGTTGATTTCG
CTGTATTCTGACCGCGCGCTAAACCGAAGAGCGTCCGTCGTGCTGTCTCAACACGCGC
AGGCGCGCGCTTTGCTGCGCAACTGGTCAAAACGATCAACATTTGCGGCTCTTGACGCTG
TGTTGGTAAATGATGCTGACGGATTCGGAATTTTCGCGCAAGACGGGGGATTTTGTGA
CGACGCTGCGCGCAACGCGCTATGATCTGCTTTTCTCGGTGGAATCGCTGTGA
GAACGCTGACCTTAAATAGACGGTTTCCAAACCTTCCGTTTGTGCGGCAAAACCGGA
GACGAGAGTCTGCCAAACCGTGGCGCGGTCATATTGATGCGGAACATGCAATAAAC
TGTCCTTACATCAATAATGATAATGGTCTATTTTAAATAAGCGCAACGGGCTTGTGCG
GAAACCATATCGCGAGCGACAAATTTGTGAAATGCGACAGCTGTGCTGTTTCCG
CATAAATTTGCTTTTTTACTGCAACCACTGCTATGACACGCGCAACATCATCTCT
TGACATGGGAGCGACGCTTGGCGATCGACCGCAACCCATCATCGACACATGCGCGCA
GTTTTCGGAATGCG
ACAGCTCGCGCGCAATCATCGCGCACTGCTGCAATGGCTGTGCAACCGCGGTTGCGC
ACATCACACGCACTTATTCGCACTTACCTCAATCCCAACCGCAATATGCTCTTAT
TTCCGCGATGCGCGCTGCTGTGCAACAGCTCAAGCAACAGGATCTGCTTGCCTGCG
CCAGCGCGCAAGGCGCGCGGTTTGGACACGCGCATGCTCAACCGCGCACCGCGGCT
ATTGCTCGCGACGCGCTGCGCGGGGAATATCCCTCCAAACCTGCGCGCAATGAT
TCGGAATCTGCGCGCACTGGGACTCGACCGCAAGAGGCAATTTGGTGTGCGGATACGG
CGCACGACTTGCATATGGCGCAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
ACGATCTCGCGCGCACTTTAGCGCACTTTCGCGCTGCGCGCGCGCGCGCGCGCGCG
AACTCGCGGTTTTCGCAACAAATACGCTGATGTTTCGCACTTTCGCACTTTCGCGCGCGCGCG
AAAAATGCGCTTGAAGCGCTGTCAGACGGCATTTGTTGGCCAAACATTCAACCGCTG
CGTCAACGTTTGCACAAATCGGTTTGGTTTCCGCTCGCGCGCACTCTTTGGGCGAGG
ACGAACCAATGCTTTCTTCGCGACCTCGGCTTCCGCTACGGTTTCTGCGCCCATCG
CGTATGTTGCGAGTACTTCCGCAACCACTTTCGCGCGCGCGCGCGCGCGCGCGCTTACG
CGGACTTTGTTTGGCTCAAAACATCGCGGTTGAGGATGCTGATATTCACCAATA
TAGCATGATGATGCGCGGATGCGCGCGCTTTCGCGCGCGCGCGCGCGCGCGCGCG
GCGCAACGACCAACATCAGATGTCGCACTGTTTCCCACTCTTTCGCGCGCGCGCGCTTC
CGGTTGTCGTCGATAGCATATCTTCTTGTGCGGATGCGGATATGGGGAACCGC
GCGCTACGCGCGGATGATGCTTTGGTTTCTACGACGAGAGCGTGGTTTGGCTGACA
TAGCGAGTTTGTGCGGTTTCTGACTTCCGATTTTGCACATCTCCGACGCTTCTGAC
AAAGCACTTTTCCGCGCGCAAGCTGCGCATGTTCTTCTGACCTGACGCTGCGCCTTA
TGCGCGATCATGATGATTCACAGTCTTGGGATCTAGTGGGCGACTTCTTATGCACT
TTCTTCACACG
CGCAGCTGCTTACGAGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
GCCAAGCTTCAATAACACCGCGCTTTTTCACGCGAGTTGTCACGACGAATTTTGTG
TGAACGACTTCTGCGCGCACATAAATCGCGCGCGCGCGCTTCCAAAGCATGTCGACA
ATACTGATGCGCGATCCACACCGCGCGAGAGCGCGCGGATGCGAAGGATGATGCTT
TTCTGTTATAAGCGCGGATTTGCTTTTCAGCGCGCATCAATATTTTCTTCTGGGT
TTTACGCTGAGCGATGTTGTCACACCGCGCAACCGCACCGCGCGCGAGATAAGCTGTC
GCAATATTAAAGCGCGGATAAAGCAATTTTGCATAAATCAAGATAGATGATGACGAC
ATTACCGCTGATACGCGCGGATGACATTTGCTTACGCGCGCGCGCGCGCGCGCGCG
ACCGGTTTTCGCGGGGTTGCAACCTATCGCGCAAGATGCGCGCGTCAAAATACGCGCT
CACCGCACCGCGCGACCAACCAAAAGATATTTTTCGCGCGCGCGCTGATCGCAAGGA
GCTGAACCGCGCGCGGTTGTACACCGCGCTGATGCGCAAGGAGGATGACATTT
GACCGCTTCCGATACTGAACACGACGACGACCGCGCGCTTCAACGCTGCGCGACGAC
GATGCGCGAAGTGCCTAACCAATACGCGGTTTTCATGGAACGAGTGAAGACATGAT
TTTCAACACGCGGATAAGAGGATGACATTTTCCGCAATAAACCGGCTTCTGCTACGAA
CGGCAATGCGCGCTTAAACGCGGATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
TCATTCCGCGGTAGCGGGAATCAGACCTGTCGCGCAAGAACTTATCGGATAAACAA
GTTGCCCAACCGCGGCTTCTATAGTGATTAATTAACCAAGTACGCGCTGCTGCG
CTTGCGCTACTATTGTACTGCTGCGGCTTCTGCTGCTGCTGATTTAAATTTAATC
CACTATAGATTCCCACTTCCGTGGGAATGACGCTTCACTGATTCGCAACACCGGTA
TCTTGAATCGCTCATTCGCGCGCGGGGATCTATGCGAAATGACTGAACACCTCGAG
ATTCATGATCTTCTCACTTCTCGGGAATGACGCTTCACTGCTGCTGCAACACGCAAT
CTGCAATTCGCGCTTAAACGCGGATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
TCGGAATGACTGAACTCGAGATCTGATCTCCCACTTTCGCGGGAATGACGCTGAC
TTGCGTTCTCAACAAACCGCAATCTGAAATCGCTCACTCCACACGCGGGAATCCAG

Appendix A

-430-

ACCCCCTGACGGCGGGGAATCTATCGGAATGACTGAACCCCGAGATTCTAGATTCCGA
 CTTTCGTGGGAATGACGGTTCAGTTCGGTTCGACACACACCCCAATCTCGAAATCGCTCA
 TTCGCCGACAGCGGGGAATCCAGACCCCTGACGGCGGGGAATCTATCGGAATGACTGA
 AACCCCGGAGATTCTAGATTCCCACTTTCTGGTGGGAATGGCGGTTCAGTTCGATTCCGACAA
 CACCGTAATCTTGAATTCGTCATTTCGCCGATAACAGCGCAATCTTGAACCCGCTCATTTCC
 CGCGAGCGGGGAATCGACGCTTCGCGCGCGCGGGGAATCTATCGGAATGACTGAACCC
 CGCGATTCTAGATTTCAGTTCATTTCTGTCGGAACGCTTCAGTTCGTTCCGACACAC
 CTATATCTGAAACCCCTCGCGCTTTATAAGACAATTCGCGGCAAAAATAATGCGTCTGA
 AATGCTGTTCCGCGGTTTCAGACGGCATTTCGTCNAATTTATCAGCGGTAATGCGCGGT
 TTCGGCTTCTCGCGCGACATTCTCTGCACAGCGTTTCGACAGCGTTTCAATGAGCTCGAAC
 CGCGGCCACATCGCGGGGTAGTGCCAGCAGCGGTTGCGCATTTTCACCATCACTGGCTTT
 AGCGGCAACGCGCACTGTCGTCGCTATTTCACTTTTCGTTTGAACACACGACGAACAA
 GCGCAATTCCTTCGCCAAGCATTAGATAGCGGCAATTCCTTCGCGCGGCTAAATTC
 GGCTTCGGCTTCGACGAGCAACGACGGTTTTCGCGCGCGCAAGCGTCGATGCGCGG
 GGTACCGCTTCGCGGGCTTCGCGGATTGCGGCTCATTTTTCACCAAGTTCGCGCTCGGT
 TTTTCGTTGATGCTGGGAACTCTGCGCAAGTATGGAAGAGGACGCTGCTTCCTTCGCG
 CGCGCGGATGATCCCAAGCTTCTTCGCGCGTGAAGCAAAATCGTGCAATCAAGAG
 AACCAAACTCGGCTGTGATGTGATACAGGCGCAATTTGCGCTCGCGCGCTGATGGCTGTC
 TCGTTTGGTGGTGTAGAGGCGGCTCTTCAGGATGTCGAGGTAGAACACGCCAAGTCTCT
 CGACGCAAAAGAAACATCTCTTTACGGAAAGTGAGGCAATAGCGGTAAGTAATC
 GCTTCGACAGACATCTTCGAGCTGACGTGCCAATACACGCGGTAGCGGCTGATTTCGAC
 CATATCCGCGCTGTGACAGGCACTCTCAATCGGAATTAAGTCGCTCAAGTTGGCAACAA
 AAGCTCAAGGATTTGCGGATACGCGGTAAGTCTTCGTTACGCGTTTGAAGGATTTCTTT
 GGAATCGCAATTCGCGCGCTTAATCGGTACATCGCGCCACAGCGCGAGGATGCTGCG
 CGCGAATTCGTTATAAACCTCTTCGCGTGCAACGACGCTTCGCGATGGAATTCGACATTT
 TTTGCTTCTCGCGCTCGCAACCAACCAATGCTTCGACGACTGTTTATCGGCGCGGAC
 CATGATGAGGCGAGGATGCTTCGATGCTTTGTCGCGCAGGCTTTTCGCGTTCGCGCGG
 CGCTTCGAGATTCGAGGCTTCGCGGCTTCGCAATTCGCGCTTCGCGCTTCGCAAGGAATA
 ATGGCTCGAGCGGAGTCAACCACTACGTCCATTGTGTGCAAGATTTATCGTAATTTTC
 GCAATCTTCGCGGCTCAAGGATTCGCTCTTATCGAGGAGAACAGCTTCGATGCGCTT
 TTCTCTGATTTCAGGCGCACTTTTCCAAAGTTCGGCAGAGTTCGGATGCGATTCGCG
 CGTTCTTTTGGAACAAAGAAAGTCATCGGCGTGCCTCAATAGCTTTGGCTGAAACACAC
 CAGTCAAGAGGACCTTCAATGCTGCTTCAACCGCGCGGACCCCAAGAGCGGAGAA
 TTCGGTGTGTCGCAAGCTTTGATGCTTTGTCGCGCAGGCTTTTCGCGTTCGCGCGG
 TTTCTCATACGCAAGTTCGCGGCTTCGCGCTTCGCAATTCGCGCTTCGCAAGGAATA
 CAGAGCTCGAGCGGAGTCACTGCTTCGATTTTACGCTTCGCAAAAGCTTCGCGGCTTTCG
 CAACCATTCGAGGATGACGGGTTTCGCTCCCAACCGGCAATACCGGCGACACCGCGGCT
 TTCGCGATGTATCGGCTTCGCGCTTCGCGGCTTGAAGCTCATGCGGATTTATTTAT
 CGACAGCGGCTAGTCTTCCAAACGTCGCGCGGCGGCTGTGTACCAAGCGTACGCGG
 ATCGGTGTAAGCTGTTTCGCGCTTGAGCATGGAATATCGGCTTCGAGGAAGGATGGTT
 CATGTGAGATTTCGAGCTTGTGCGCGGCTGTTTCGCGGAGATGCAATGCCGCTCTGA
 AAACCGCTTAAGCTTGAACCGCTTCGCGCAATTCGCGCAATTCGCGCAATTCGCTTT
 CGGCTGATCAATCACTGTATACACACGCTTCGACCCGACAGACCGGCTTCGCTCGCGG
 TAGCTCCAAAGCGTAGTCTCGCAATGACGCCAAGCGTTTCGCTTCGAAACAGGCAAA
 ACCGAATCGCGCGGCAAGCGCGGAGTGTCTTAAACAGATAGGCAACGTCATTCGCGG
 CGAGATTTCGCTTTGATTCCACTTCGCTTCGCGCAGGCAAGAACCGGCTCAAGCA
 GAATTTGAACCGGTTTCGACCCCGGTAGAATAGCGGATTTGTAGATTTCGCGAGCAT
 AGCAGCGGTATCGCTTCGCTTTGAATCATATGTCAGTATAGGATGGTCCAGTCGCG
 CAAACCGCCAAAGGATTAAGCTTTTTCGACAGCAATCTTCGCGGATTCGCGGATTCG
 CGCGCAACTTCGCGGAAGAGCTGTTTGGGATATCTTCGCGTGCATTTCTCAACT
 CACTTCGATGGCAGGCGGTGGGATCCCAACCCGCGCATAAAGCGGTCGCAAAACGGG
 TTGGGTTTTGCTCGGGAATAGATGTCCTTTGAGAATTTTATGACGGCATGACCGATGTG
 GATGTCGCGGTTGGCATCGCGGCGGCTGTCGCAATAAATTTGCGACGCGCTTTGGC
 GATTTCGCGCGATTTCGCTAGCGTTTTCGCTGACGACTTTTCGATGCAATGCGAGCTC
 CGCTTTGGCAGATTTCGCGGCTCGCGGAACCGGCTCTCGAGCAGGTTTACGCTTTTACT
 GTATCGCTCATTTTAACTCTTATGTTCAATATTTTCGCTTCAGAGCGGATTCGCG
 CGCAACAGCATTCGCGGGAACGCTTCGCGGATATCTTCGCGTGCATTTCTCAACT
 GTAGCCCAATCGAGTGCTGTGTAAGGTTTTCTACCAACGCGCTTCGCGGCTTCATATC
 GGCTCAATCTGCTTTTCAGTTCTTCATACCGCTCAACTTTTCTCATCGCGAGTTT
 GTGCAGGAAGCGGACGCTTCAGCGCTTGTGCGTACAGCTCGCTTGAAGTGCMAACGCTG
 GACTTCAAGCTTTTGAAGACGCGCTATCAAGCTGGGATTGAAGCGGAACCTCGCAC
 CGCGCGCGGTCGGAATGCGCGCTGCTTCGACGACAAACGCGCGCGGAGTGATTA
 AGCTGCGCGGCGGCGGAGTGTGCGAGCTTCGCGGCTTGAAGTGCCTCGGAGTTTCT
 GCGTTCGCGCTTCGACGAGCTTCGAGCTGAGCTTCGCGGCTTCGCGGATTCGCGAGG
 AAGGTTGCGCTTCGAAAGGCTTTCGCGCAGCGGCTATGCTGCTGCGGATGCTTCGAC
 GATGCGGAAGGCTACGCTCGGCTGCTATCGGCTGTTGTGCGCAAGGTTCAAAACA
 GCGCTTCGCGCGCGCACGGAACGGAATCATCGCGCAGGCAATTAACGGGTTATCAA
 GGTTCGACGAGCGGCGGCTGATAAAACCTTCGCGGATATTCGGAJAAATTTTGATC
 GAAACGAAACACGACGCGCATCGACAGCTGCTGCTTCCATATTCGAGCTTCGCTGCT
 CGCGCGGCGGCTGATTCGACAGCTGGGCTGCTGCGGCTGCGAGTGCGGAATAAATTCCT
 GGCTTCGCGCTTCGACGAGCTTCGAGCTGAGCTGCGGCTGCGGCTGCGGCTGCGGCT
 GAGTTTTTCGAGCATGCTTTGCTGCTGAGGTGTACGCGCTGGAATTCGCTATGCTGAC
 GCGGCAACCTGTGGAAGTCGCGCGGCTGTCGCGCGCGGCTGATTCATGTTGTC

-431-

[illegible]

Appendix A

-432-

CGCGCCAAACGGCGACGAGGGGGCGTTTCTTTTGGCGCCCAATTCTTCAGCGGGTGA
 GGTGCGGATGTTTTCAAAACCGCTTTCGGCGACGTTGCCACATACATCGCCGGTTTGG
 CGGTACAGCAGGACAGCGGTTTGAGCATCGCGGCTTCTTCGCGTCCAAACGGAAGAAC
 GCAACGGGTTTGGCTTCGTCAGATCGCGCAGCAGTTTTTGCACAAAATGACACAGCTTTT
 GCGCGCTTTTGTGCGCTGAGCGGGCGCTTTTCTTCGCGGACGATGGCTTTTCGACAC
 TTGCGAGGTGCGCAATGCGCAACTGTGCGCGATGTTTCAATGTGCGCAATCGGATCGA
 CGCGGCTTGCAGCGTGACGATGTTGTGCTGCTGCAAGCAGCGACGACATTCACAAATCG
 CATGGTTTGGCGAGCTGTGCGCAAGCTGTGCGCAAGCGTGTGCTTGTGCTGCGG
 CTGCAACCAACCGGCAATTCGCAAAATTCGACGATGCGACGTTGCATTTTTCGCGAT
 TGACGATTTTGCCAAATTCGGCCATACGCGGATCGGGGACTTGACGATGCGACGTTGG
 GTTCGATGGTACAGAAAGGATAGTTTTCGCGCTTCGATACCGGATGGGTGAGCGGTTAA
 AAAAGGTTGGATTTGCGCAGCTTGGGCAACCGACGATGCGGCAATTCACATCATGTTT
 TTCTCGAAAATAGAGAAATTTAACGGCGGATATAGCATACCGCGCGCGGCTTCGAA
 AAATGGCGCTGAAGCGGTTTCAGACGATCGCGTTTCAGAAACGCTTCAGAACAGCG
 CTGAATCACCGCTTCTGCGCTCATGATTTCTGCGGAGCGGCACTTTGGCGAGG
 CGGCAATTTTCATCATGTTGCCGACAGCGGACGATGAACCTGCGCTGCGGAACCG
 TGATCGCGCGCACGGGATGCGGAAGTCTTCGGGGCAGCCCAACAGTTTGGCTGTGCG
 TCAAAAGATATTGGGTTTTCGCGATCGAGATCGGCAATTTTCGCAAGCGCAGTTTTC
 GTGAAGCGATTTCGGCAGCGCTTCGCGCTGAATCAGCATCTTCGCGCGGTACACTT
 TTTCGGCAATTCGACGGATTTGTCTTTGATGCCAACTCGACATGTATAGCGAAACG
 AGTTATTGGTTTGACTTTCAATGGCTTGACGACTTTCGCGGCCAAATCGCGCGCGCG
 CACCACTTTTCGCGCACATTCGCTGACGAACATTCACGCGGTTTCGCGCACGCTTT
 TTTCAATCATCTGCACTCGGATCGGCTTCGCGACGAAAGCGGTTGAGCGCACGACGA
 CGGCGAGTCCGAATACGTTTTCAGGTTGGAAATGTTTTCAGCAGGTTGGCAACCTT
 TTTCCAAAGCGTCAAAATTTCTTCGCGCAGGTTGGCGGTTTCACGCGCGCTTATAT
 TCAACGCGCGGACAGTGCACACGACACAGCGCGATCAGGTTTCAACCGCGAAGCGCG
 ATTTGATCTCGCAGAAATTTTCGCGCGCAAGTTCGCGCGGAGCGCTGCTCGGTTACGG
 CGTATTCGCGCAAGTGTTCGCGCAGCGGTTGCGTTTACGGAGTTGACGCGTGGCGGA
 TGTTCGCGAACCGCGCGCTGTGACAGGCGCGCGCTTCGATGTTTTCAGCAAGT
 TGCGCTTAATGTGCGGACGCAAGTCCGCTTTCGCTTTCATCTTTTCATCTTTTGG
 CGTAAACGGGCTCGCTCTTTTCGCGTAGCGCAAGAGATGTTGCGCAACGCTTTCAC
 AATCGCTGATGTTTTCGCAAGACAGAAATCCGCGCATCACTTCGGAAGCAGCGTAATAT
 CGAAACCGTCAGGACGATCAGCGCTTCAGCGGTTTACCATGCGCTGATGATGTTGC
 GCAACTGGCGGCTGTTTCATAGCAGCAGCGCGCCACAGCAGCGGTTTGGGTGCTGATG
 TCAACTCGTTGCTTGGTAGATATGTTGTGCGAGCATCGCGGCAAGCAGATTTTTCGCG
 CACGATGGCTGAATATCTCCGCTGAGTGCGAGGTTGATGCTTTCATCGCAAACTT
 TCACTACGCGCGCTTCGCGCGCTTCGCGCACGCGGCTTCGCGCAACGCGGATGATG
 CGCGAGCGCAATCAAGCATCTTTCGCGATGTCGCGCAACGCGCTTCGCGCAACGCGATG
 TTACGCTGGTTTTCGCTTCGCGCGCGGAGTGGGTTGATGCGGTAACCAAAATCAGCG
 TGCGCTGTTTTCGCGCAGTTTGAACGCTTCGCGCAGATTAATTTTCGCTTGAATGAC
 CGTAGGCTCAATGTTTCGCGCATTCAGACAGGCTTCGCGGCAATTTTCGCAATCGGCG
 GCATGTTGAGGATTCGCGGATTTGCGCATCGGTTTGAAGTCAATGATTTTCCTTTAGA
 AATGAGGAGGACATGCGCTCTGAAGCATCAGCGCGCAACAGGTGATTAATAATAT
 ATCGGCAATATTGAACCTTACCGCAACAGCGGCAATTTTGAAGCAGAAC
 AAAAATCGCTTCATATTTCACAAATCCAAAGGAJAAATCGGCGACACAGCATGCT
 GTTTTCGCGATTGCGCATCGCGAGGTTTCGCTCATTAAGCGGATTTTCGCGCAAAATGGG
 TTTACAGGATATAGATTTCGATTTTCGCGCACTTTATTCGCGACCTTGGTCATCTTCGCG
 TTTGTTATTGTTTTAACCTACACCGCAATGGCAGGTTGAACGCTTACGCGGGCG
 CAACTGGACATTCCTCATCTCATCGGCTTCGCTACCGCGGCACTTTCGCTGCGCTATT
 TAAGCGCTGCAACGCGCGCAGCGCTCGCAAGTTCGCGCGCATCAAAATTCAGCTGAT
 TCTTGGTCGCTGATGCGCGGTTGCGCGGATGCGCGCAACGCGGAGCATGATGAT
 AGCTTTCGCGCTGATGCGCGGCTTCGCTGCTGCGCTTGAACGCTTAACCGGATC
 CGCATACGCTTCGCAACGCGGTTTTACTTCAGAGCGCTTCGCAAGGCTTGAAGCTCTT
 TCAGACGGCATACGCTGCGGACATCAGCGCAACGCGGATGCTTCGACGCTCAGCG
 GGTTTTCGCGCATTTTCGCGCAACGATACGCGGCGAGTTTCGCGCACCTCGCGCTTCGA
 TTTGCTCAACATTTTCAGACGCGTAATAACCAAGCGCTGATGTCATTCGCTTTCGCG
 CATTTACTTCGCGCGCACGCTGCTGTGCGGCGACGCGGAAATTCGCGCTCGGCGTTGT
 CGCGCGGATTTTTCAGCAGCGACAGATGCGCGAAATATGTTTCGCGCAGGACGATGCG
 TCGCAACGCGCGGATGCGGATGCTGATGCTGCGGCGGCGGATGCGCAACGCAACAG
 GCTGCGCACCAACAGCGGCAATGCTTCGCGGATGCGCGCTGCGGTTTCGAACCGCGCTG
 CGGTTTCGCGCGAATGCGGATGTTTCAGCATAGCGCGAGCGCTGCGGCAACGATCTT
 CTATCTGCGCGACCGCAGCGGTTGTTGATGACGATTTTCGCTAACCGCGCTGCTTCA
 GACGCGATAGGTGCGCAACGATTAGAGGCTTACCGCGCATCGAGCAGCGGCTTCGAG
 TGTATTCGCTCAAGAGCGGATACGCTGCGCGGCTGCTGCGCGGATCATCGCTTTCA
 TATATCTCTCGGAATCATGCTTAAAAATCAAACTGCGCTTCGAAATCAGCAGCGCGG
 GCGCTTTCGCGCATCTTTCGATTTGATTTGCGGCGGCTGCGGAACCAAAATGCTGCG
 GATTTTCATGTTTTCGCGCAATATGCGCTGCGAGTTCGCGCAACGCGGCTTATTCAA
 GTTGTCCGCTTTTCGCGGATGCGCAATGTTGTTAGCGAAACGCTTTCGCGCGACAGCG
 CGGTGAGCGCGGCAAAATGTTTCGCGCAATCTCTGATGTTTCGCTGCGCGAGCTATTGATG
 AGAGGCTCGCGTTTTCGCGAGGATCGGAATGATTCGCGCACTTCGCTTATGTCACAGCA
 TCAAGCTTCGCGCGGCTGCTGCGTGAACGCGCGCGCGCTCATTGTAATGCGGTAAACGCG
 CTGCGCGACGCTGTGTGCTGATGACATGACGCGCTGCGCGCAAGATGCGCATGATC
 GAGCAAGATTTCGCAAAATTTTTCGATGCAATGCGCAATTTTCGCTTTCATCTTTCGCT
 ATATAGAAATGCTGCACCAAGGCAATCCCGCATGCGACGATTTTGATTCAAAAGCGCG
 TCGGTGCGAGCTTTCGCGCGGTTCGCGGATTTACGAGTTCAACGATCTCGATTTTGG

Appendix A

-433-

CAAGTTCTGCCAACGGCTTTAAGCAGCAGCAATTTCTCGGCGGCCAGCACTTCTCGTGA
 TAGCGTGTAGCGTGTCTCCACTTCTTGCCGATTTCCTCATACAGCTTCTCGCCCTCGG
 CAGTCAGCTTTCAGAAAAACACGTCTGTGGTCTGTGGAAGTTTCAGGCGGACAAACAAAC
 CGCTTTTCAAGGCGGGTCAGGATACCGGTCAAGCTGGGGCGCAAAATGCACGCTGAT
 TCGCAGAACTCTTGAAGTCCAGCGTCCGCTTTTCGCCAAAAAGACGGATAATCGGCCACT
 GCTGATCGGTATATTTCCGCTGATTCAAGATAGCGCTGAATTTGGGTCAACAGGGCTTCCG
 TGGCTGTATCAATAGACAGCAATTTTGATTTGGTATAGGCACTTTGTATG
 TCTCCAGCTTATCGAAATCAAACTTTCAAACTCGGGAAGGCTGTGGGCGTTAAATTT
 TGATGCAACCGTTATATAACAAAAACGAACATATAGACACAATACGCTATAAACCAGCATCG
 GACGACTGGGTATAAAGACTTTAATTCGGATAATCTATCTAAAAATATTTAATAGTT
 ATATCTTAATCTATTTTCCCACATACACAAAGGATTACATCGGACGGCGGTCCGG
 TCTTTCCCAAAAAACAAAGCCGCCGATCCGCCGCCAAGGCAATATGCGCTTGATTTCT
 CTACATAGCGGAAATTTAATAAACAAGTTTAAACGAACATACGCTGTGAATAAT
 CTGGCGGCAAGCCCGTATCTGCTGATTCCGTGATTTGATAGTGAACATTTTCCCAATTT
 TTGACCAAAACGACGGCAGCGCTTGGCAAAATCCGCAAGACTTTGCCAAACCGCTCC
 TCATCTTGACATCGGAAAGCCCAAGCGCGTTTTCGCATATACGCGCCCACTTCCGCG
 GAACCTGCGGAACGTACGCCAAGCGGACGACCGGCGACGCCCTCCGCGCGCAAAATCATCG
 ATTATCGGCACTGATACGCGACACCGCGCACCAGCTCCCCCAAAATACACCAAAACC
 GCCTTATCTCCGCTAAACTGTCCAAAGTCAGCGCGTCCGCCGACAGCAGGCTCAAGGCG
 CGCCTCGCCGACCGCGCGCTCTTCGGGCTTGGGTATCCAATCCAAAGACGGCAGCAC
 ATATAAAACACCAATGCTGCTGAAAGCAAAATTTGATGCGTGAAGCAAGTTCTTTTCT
 ATACGCTCTCTCAAGCGTCCGCCGACACCGCGGCAACAAACAAACGACGCTCA
 AAATCTGGCTTCCGCTTATCTGCTGGTGGTCTGAGCGATTGCAACGCTCGACCAACGATTT
 AAAAGTCCGCTGCTCTACCGACTGAGCTAACGACCGATAAGCCGCTGATTATACAGCAG
 CATCTTACCTGTCGAAGCAAAATTTACAGGCTTAAATGCGAGCACTGTTGACAGGGAT
 ATTTTGACAAACGGATTTTCAACATCCGCCGATACCGTGTAAAGTTTGCACAAGGAJAA
 GCAACCGCCCGAAATCAATGTACACTTTCGCCGCCGTTCCCTTTCCCACTCGACACAG
 AAACACACATATGAAATACAAAAACATCGCGACCGCTCTCGACACGCTGGCGTTCCGA
 ATAGCGACACGACATGAGCAAGCTGCGACCGCTGATGCGTCAAGCTCTGAGCTCAGAG
 GCATCTCATATCGCTTCGATTTCCGCTTCCCGTCCGCCACATTTGGCTGAGAAACAGCG
 ACCGATACAGGAATCTGATGCCGGAACAGCGACACACATCAATCTGTCCATGG
 ACACATGAATCGGCACACAAAATTCAGCGCGCGCTTACCACCATCAAAGCGTGAAAA
 ACATCATCGCGCTGCATCGGGAJAAAGCGCGCTGGGCAAAATGCACAAACACCGCCAAAC
 TTCGCCGCGCAATGGCGCGCTGATGGCGCGCGCTGCGGCTGCTCGATGCGCACTTTAGG
 GCGGAGCCACACGACATGTTTGGGTGGGACACCGCAACCGGATTCAGAAAAACAAA
 AACTCATTTCCGCGGATATGACGCGCTGATCATGCGCTGCTGATGCTGCTGCTGCTG
 ATCCGACCAAAAGCGCTGCTTGGCGCGCGCGATGGTCAAGCGCTGACAGCGTGA
 TGTTCMAAGCGAGTGGGACGAAGTGAATCTGTTATTCGACCTGCCGCCCGCGGACG
 GCGCATCAACGCTCAGCTGTCCACGCGCATCCCGCTAACGGTTCCGCTCATCTPAACCA
 CGCGCAGGACATCGCCCTGATAGACGCGCGCAAGCGCTGGATATGTTCCGCAAAATCA
 ACATTCCTCATTTTGGGCGTATTGAAAAATATGTCGCTCCATCATCTGCACCAACTCGCGGAC
 ACAGCGAAGCACTTTCGCGACGGACGGCGGCAAGATTTCGCGACAGCGCTCAAGCGTCC
 CCTGTCTCGGACAGCTTCCCTTAAGCTGCCCGCTGCCGACCGCATGGCGCGGACAC
 CGCGGCAATCTTTCGACCAACCGCGCTATCCGCAATTCACAGCTGCGGCAATTC
 AAATCGGCTGAGCAATTCGCCCAAGGCAAGACTTCAGCAGCGCTTCCCAAAATGG
 TCGTGAATAAAGCGCGCTCCGAAACGCCACAGCAATGCCCTCCAGGCGCCGCGCTG
 CGCGCGGCAACCTTCGCGATAAACGGTTTTTTTGAGATTTACGTTCCGGATTCCG
 CCTGCGCGGAATGACGAATTTTAGTCTTCTGATTTGGTTTTCTGTTTTGTAGGAATGA
 TGAATTTTGAGTTTAGGAATTTATGGAAAAACGAAACCGCTCGCGCTGATTCCG
 CGCGAGCGGGATCTAGCACTTAGAAACAACAGCAATTAACAGGTTAGTGAACATTT
 AGAGATCTAAGATCTGCTGCGGATGAGCGGATGATGCTTCTGGGAATGACG
 GTGCGAGTTTCCGTCGCGATGGATCTGTCATTCCGCGTACGCGGATCTAGCACTT
 GGACACGCGCAATATCAAGATTATCTGAAGTTCGAGATTCTAGATTCCCACTTTCGT
 GGAATGACGGGATGATGTTCTGGGAATGACGGGTGCAAGTTTCCGTGCGGATGGAT
 TCGTCAATCCCGCGCAGCGGGAATTAGACCTTAGAACAACAGCAATATTAAGAGTTA
 GCTGAAGCTTTAGAGATTCTGGATTCCCACTTTCGTGGGAATGACGGGATTTAGATTTC
 GGCATTTATCGGAAAAACACACACCGCTCCGCGTCAATCCGCGCAGCGGGAATCCA
 GACTTCTGGGATGATGATATCAAGATATTAAGATGCTATCTGCGGCAAGCT
 GGAATCCAGAGCTTAGAACAACAGTAAATTAACAGATATAAAGACTGTCTATCCG
 CGACGCGGGAATCCAGACTGTCCGCGCATCTGCAGCGGTTTGTAAAAACGCTTTACCG
 TGATCAGTGTGCAAGTTTAAAAAGGGAGTTAGCTTTTCAATACGCAATCCGCGCGGCG
 CGGGATCGGGCGGTTTACGCAACCCGGTGTTCGCGCGCGGCTGCCCGCAGCGGTATCC
 CGGAGACAGATTTAAGGGATAAAATATGTTCCACACGACGGGCGGACATAAGGCGC
 CGCCTGATTCGAGAGGCTTGCACCCCTCCGCGCAAGGCTGATCTGCGCGCCCGGA
 GACGAGATGCTCAGAGGCTTGTGCGGAAAGGAAATGAGTAATGATGATTAATCAAT
 AAAAGCGGCTTTCCGCGATACCGGCTTTATGCGGCACTGTGATGTTTTCCCATAC
 CGGCGGCGGGGGGGCGGCGATGGCGCAACCCATAAATAGCTATTTATCATGAACGAC
 AAAACGACCAAGGTAAAGGGGAATGGCAATATCAACATAAAGGCAAGGACAGGG
 AACGCAAAATTTATCTATAATAAAGCGGCGGGGTGAGGCTCTGCTTTTTCGACAATA
 CCGATACCTTTGTTCCGACAAAGCGTACTGCGCTTTTGGCACAGCACCTACTCTG
 CGCCTACGCGCAAGTTCCGCTTTTGATGCGGACGGCTGAAGAGCGCGCAATCGGCT
 TTAATGGATTTCAGGACCCACCGGCTTGTAGGCTACAGCTACAGCTGTCGAT
 GCAAGGACGCAAGCTTCCCAAGCTTTGTGAAGACCGGATTTCTCGCAAC
 CGGTTGGCAAAAAATGCGCGGAGCTGATAGGACCGGACCGCAAGCGGAAATTT
 GCGCATTACAAATTAAGGATCATCATGTTGGGCGTGTCTTCAATTTGGGCAAG

-434-

[illegible]

-435-

[illegible]

Appendix A

-436-

CTTTGGCGGGCGCAGAAAGGTCGGCTTCCCTACCCCTGATTGTCCTCTTTACACATGG
CGGGTTCGGGGCGGCGCATTGCCATCAATAAAGACGAGTTTTCGGGATTTGGACACGGG
GTTTCGATGCGTCGCCACGCGACGAGCTGTGTAGTGAAGTCGGTTCTCGGGTGGAAAG
AGTACGAGATGGAAGTGTGGCGGCATGAAGAAGGACATGCATCATCATCTGCTCGATTG
AAACCTTCGACCGCATGGCGGTGCATACAGCGGACTGATTACGGTTTGGCGGGCGGCAAA
CGCTGAACGGACAGGAATATAAATATGTCGTATAGTCTCGCTGGCGGTTATTCGGCGGAA
TCGGCTGTGGAAAGATCAAGCTGACATTTGGCGGTGAACCTGCAAGCGGCGA
TGATTGTGATTGAATGAACCGCGCGGTGAGCGCTTCTCGCGTGGCTTCGAAGCAAA
CGGGTTCCCGATTGCGAAGGTGGCGGCGAAGCTGGCGCTGGCTTACGCTGGACGAGT
TGCGCAACGACATACCCGGGCGCAAAACCCCGCGCTGCTCGAGCTTCCATCGACTATG
TGTTTACCAAAATCGCGGCTTTCGCGTTTGAATAATTCCTGGCGGACGACGCGCCTGA
CCAGCGAGATGAATCGTGGGCGAAGTGTGCGGATGGCGCGCGAGTTCAAGAAAGTT
TCCAAAAAGCCCTGGCGGGCTTGGAAACAGGCTTTGGCGGGTTCATCTCGGCGAGTGAAG
ACAAGCGGAAATTCGGCGGAACTGGCGGACCCCGGCGGCGGCGGCTGCTTGTGT
CGAGCGGCTTCGGCGGGCTTACGCTGGAGAAATCCAGAAATCCAGAAATCGGCCATCGAC
CTTGCTTCTGGCGCAATCGAAGACTTGATGAAGGAAGAAAGCGGTTTCAGACGGCA
TTTTGAGTATTGTTGATTTCGGCGGCTACGTCGCTGAAACGCAAGGCTTCTCGGACA
AACGTTTGGCACAATTGTTGAACGTAGCGGAAAGAGATTCGCGAACACCGCTACGCGC
TGAAGCTGCAATCGGTTTACAAACGCGTCGATACUTCGCGCGCGAGTTGCGCACGAAA
CCGCGCTATCTTACCTCGGCTACGAAGAGATGGGAATCTCGTCCTTCGCGACGCCAAAA
AAGTGTATGATCTCGGTCGCGGCGCGAAGCCGATCGGTGAGGCGCATGAGTTTGAATCT
GCTGCTTACAGTACGCTGCCCTGGCGGCAATCGGCTTGAACATCAATGCGCACT
GCAACCCGCAAACTGTGTCCACGACTTCGACACACGCGACCGCGCTGATTTCGAGCGCG
TGAOCTGGAGACGCTTGTGAAATCGTCCGACGCAAAACCCGTGGGCGGTGATTGTGC
ATTACGGCGGCGCAACCCCGCTCAAACTCGCCACCGCGCTGTTGAAACGGCGTGAACA
TCATCGGCACTCGCGCGACGACATCGACGCGCGGAAGACGCGGACGCTTCCAAAAAG
TGTGAAACGACTTAGGCTTCGGCGCGCAACCGCCACCGCATCGCCACGAGGAAGAGAG
CGCTCGCTCAAGCGGAAGAAATCGGCTATCGGCTGGTGTGCTGGCGGCTTCTACGTCCTG
CGCGCGCGCACTGCAACATTCGCGCGCAATCGGCTGGAACATCATGCGCGAAG
CCSTGCAAGTTTCCGAAGACACCCCGCTGTGCTGCACTTCTTCGGAACACGCGATTG
AAGTGGATGTGAGCTGCTTTCAGACGGCAAGACGCTGTTATGCGCGCATCATCGACG
ACGTCGAACAGCGCGGCGCATCGCACTCGGCGGACTCGGCGTCTGCTGCCGCGCTACTCT
TAGCGGAAGAAATCCAGACGAAATCCGCGCGCAACCAAGCGATGCGCTACGCGCTGG
CGCTGTCGCACTGATGAACGTGCACTTTCGCTCAAGACGCGGTAGTGTGCTGATTGTTG
AAGTGAACGAGCGGCGCGCGCGCGCGCTGCTGCTTCTGCTCAAGCGCACGCGGTGCGCG
TCCGAAATCGCACTGCGCGGCGCGCGCGCGCGCTTCCCTGAAGACAGCGCGTGGAA
AGAAATGTTGTCGCGGATTTCAGCGCTTAAGAAAGCGCTTCCCATTCATCAAAATTC
CGGCGGTGATAGATTGTTGGGACCGGAAATCGCTTCCACCGCGGAGTATGGGCGTGG
GCGCAAGCTTTGGCGAAGCTCTACTACAAGCCCACTCGGCGGGGCGAACGCTCAACG
CGACCGCAAAATCTTCTCTCGTGGCGGAAGAGCAAGAACGCTCATTAAACCG
CTAAAACTTCCAAGTTTAGGCTACGCGATCTGCGCGCACGCGGCGACGCGCAATACC
TGACCGCAACGCGGCTGATTGTGCAAGCATCAACAAAGTACCGGAGGCGCGCGCGACA
TCGGCGACCGCTCAAAAAAGCGGAAATGCGCACTGCTGTAACCGCTTCCAGCGCAT
CGCAATCGGTGTCGACGCGGACATCTCCGCAAGCGCTTTCAGCAGACGCTGTGCGCG
AATACCCACACCGCGCGCGCGGAGCGATGACGGAAGCGCGAAGCGCGGACCATC
TGCGGCTGTACAGCGCTCAAGAACTGCAAGCGGCTTGAAGAAACCGCACTGATGCGCTGA
ATCAGGTTGAJAATGCCGCTGAAGCGGTTTTCGGGTTACAGACGGCATTTTGCATTG
GAAAGCGGATGTTGCCACACACAAAGCGGTACATAAGGAACAGCCATCTACGCTCCCCAT
ATAGATTGCCATTGCGCGCGCATATACATTATCTATTATTTTCTCAAGATTATTA
GTGAGTAAAAAGCTTTTATGACAGGTTTATAGAATTATCCACAGAGATTGTTTCCCA
CTTCTCCCATTAATGATCAAAATCATCGCTTAAGCGGAGATGACGCTTATCTGCTG
AATAAACAGCATTAAGAGGCTGTGTTTATCGAGGTTTGTTCGCGGACGAGGAGATTA
ACTTTCCTTCAGCGATGTGCTGTCAACCAAAAAATCTGATAGCAACAACTACCGCAAC
CTGAAGGCAACAGGAGCGTAAGATTTCACGCTGTCGGCGGTAAGTGGCGGTGAATCT
TATAGGAGATTTCCTGCGCATCTAAAAACGCGCATGATTAGAGAACCGGGTTCGCTGA
AGCTCAACATTGGTGGCGCGGAAGCTCTTCTGTAGATTGGCGGCTGCCGTGTTTGGCA
GGTATTACGAGCTGCGGATTACGCGGAGCGGCTGCAACAGATGGCGTGCACGCGAC
CGAATCGTCACTGAGCGGCTATAGCAATCTGAGTGAAGTCTGCACTCAATCAGATGA
CTGATTCTCGAAAGACGAGCATGAAGCTTATTCGAGGAGTGTGACGCTTCTGTAATTTG
CTGCGACGCGCGCGACAGTACGACGACCATCGGATCGCGGAATCCAGCTCAACACGCG
CTTGGCGTATTTGTCGCTACGCGCATTTTCGTTTCGCGCGCTGCGATTCTTCGACGGA
TTCTCTGCGCGCGCGGAAATTTGCGCGCTTCTTCGTCAGACTGAGTTGCGCGGTGG
TGCGGTTGAGCAGGTTTACACCCCACTTTTCTTCCAGCGGTTTGAAGATGCGGCTACGG
CAGAATTTGCGCATCGCATCTGTCGCGCGGACGGTGAAGCTGCGGCTTCCACCACTT
GACAAATACGCTGATGATCTGATATGTTTTCATCGCTTCTTCTTCTTCTTCTTGGAC
CGCGCTTTAGGAGCGCGAGGATCAGATCTTATTCGAGGAGTGTGACGCTTCTCGAAT
CAGGACGCGACACAGGCGCGTGTATTATGTCGCATCCGCTGTGTGGAATCTCTGATTAT
TTCAATTGACGCAAAAGGTGTTTCTATTATTTCGCACTTTAAATATTAAGTAAAAAGCG
ACATACATTCTCAATTCACAAACGAGGTAAACAAATGAATATTATTATTATAGACGGCG
GCAAGGCGCTTGGACATTCTCACGCGGCTTAAACCGTACGCTTCCAAAAAGCGAAG
AAGTTTGAACGCGCTCGGACCAATGTTCAAGAAACCGCTGATTGATGCGGCTATGATG
TTGAGCGAAGATTCGAAGTCTTGTGATGATGATGCTGTGATTGAGCAAGTCCGGGCT
GGTGGATGAGGAGTGAACAGTGAATAAAGCAATGAGATGATTAACCGCTTACCGCGAC
AGCGCAACTCTACCAAGCGACGCGACACAGCGCTCACTCGACTGAGGCTTACCGCA
CAGCGGCTTGTGCAAGGCAAAACATATGATTCTACTGACTTGGAAATGCGCGGATTG

Appendix A

-437-

AAGCCTTTACCCGGGAAGGCGATTCTTTGAAGCGAAGGCGTTGATGTTTGATATGCG
 ACTTCCACAAGGCGACAGTCTTTTGGGTATGACCGCGCTGCCGACATCTTATGTAAAG
 ATGTGGTTAAAATCCGAGGTGGAAAATACTTTGGCAGATTATCAGGCACACTTGGAAA
 AAGTGTCTCGGCTAAAAATTTACTTTATAAACAAACAAAGGCGAGCTGAAAGATTGAATGG
 TCTGCACCCCTAAGTTGGACTAACCAACCGACTAAGGTGCGAGATTATTTTGTGCTT
 TTTCAAGCTTTCTGTTGGGTAGATATCTTGGCCAGCTGTTTTCAGGCGAGCTTGAATACA
 AAAAATGGCTTCAACATCTGCTTTTATGACGACAAAGCGGATGAAATTTACGTTATGCG
 GCGTCAATCAACATGACTGAGTTTCTGCCCTCTCGGCGCTGAACATATAGTGATTAACA
 AAAACCGATACAGGTTGCCCTGCCCTTGGCTACTATTGTACTGCTCGCGGCTTCGTTG
 CCTGTGCTGATTAAATTTAATCCACTATATGTCATGAGTTCCTTTCAATCAAAATCAA
 CAAGAAGATGCGCTCGGAAGCTCGGTCAGACGGGCACTGTCTCCCAACATAGACTTGA
 GGCTGTTCTAACTACCAACCCCTTCGTTGCGGCCCAAAACCATCGCATCGCGTAGCTGA
 AGAAGCGGATTTGCGGTTGCACCGGATGAGGATACGCGGCGGGATATGACGCCATACCG
 AAGACCGCTTACCAACATCAGCAGCGCTGATTTTTCGCAATGAATATGTAACAGATC
 TGTGCAACATTAACGTTACGCGCGGCTGATGAATAATGCGTGTGCGGCTTGCAGCTCGCG
 CTTTCAGACGACCGCTCGCACGCGGCGGAGATTTCAGGCGGCGCATGGAAGTCGTGCCGA
 CGGCCGAGACTTGTTCCTCCCGGGGCTTTTGGCGCTCAACGCGGCGGCGGTTTCAGAGC
 GCACCTCAAAACCTGCTGTGCTGATTTTGTGCTCTTCGATTTTGTCCACACGACGCGGT
 GGAAGGTTTCGCGCACGAGTGCAGGGTTACTTCTCGGTTACCGCGGCTTTGTCTTTCA
 GACGGTGCAAAAGTCTTCCTGATAAATGAGGCGCGCGCTGCGGCGGCGGACCGCGGCT
 GATCTTGGCATTAACGTTTGAATACGGTGTGCTGATCCGCTACGCGGCGGCTGCTGGA
 TATAGCGGCAACGCGCAGGTGCTCTGCTGCTCAAAAGTGTGAAGGCTCTCGGCTTCGCG
 CTTCAAAAGCGCAGGCAACAGTTCGCCCTCACGCGCGACGCTCACGCGCGGATGCGCG
 CTTCAACACCAACGCCCATACCGGGCTTGGCGATTTCGACGAACGAGTGTGCGCGAGTG
 CGGTATGTTGTCCAAACAGCGGCTCAATCAGGCGTTTCGATCTGCGCGGCTGTCTTTCT
 GCCAAACAGCGCGGCTTCATGACTTTGGTGTGTTGAACACCAAAACGTCGCCCGCT
 CGACATATCCGCGAATCGCGAACAACCGGCTCTTCGAGCGGCAATTCGGCGAACGCCAA
 CCAAAAGGCGGCTGTGCGCGGCACTTCGCGGATGCTGGGCAATCGCTTTTGGGCA
 GGGTAATAATAAATGATCAATCTATTATACCTGATGCGGATGCGGCGGCGCAATTA
 TACGCTTTTACGCTTTTCAGACGGCACTTTTGTGCGAAAACCAACAGATTAGAATA
 AACACTTTAATCTGGAACTCTTGTGCGCAAAATCAAACTTCTGCACATTTCCGCCAA
 AAACCGCGTTTGTATATTACTAGGACATTTACGCAACATTCGGGAAATAAACAC
 ATTTCTCAGGCTGTTTCCACACAGGAAACCGGTATCGCAACCAITTCGCCCGGTT
 GCGCGCTTTCGCGCAAGCGGCTGTTTCTGAAAACCAACGCAACCAACCGCGGCAACCA
 CGGCGGCTTTAAAGGACAGAAATGATTTGCGCAAAATAAAAAACTGATTTGGT
 TTAAGATGCGGATATGCGGATGAATGATTAATGATACGCGGCGGAAAGTCCGATCA
 CCGAAGCATCGGCGCGGCGGCTTTACGCGCGCGGCTACTCTGCGCGCGCGCGCGCG
 TAAAGCTGCGCGCGCGGCGGCTTGGGCAATCGCGCGCGCGCGCGGCACTGCGCGCGG
 ATTTGTCGACGCGCAAAATCGCTATGTTGCGGCACTTTCAGCGGCAACCGCGCGGCA
 ATGCGCGGCTTTTGTGGAAGTCGCGCAACAAGTTAAAGCGGCGGACAGCTGTGCATCA
 TCGAAGCGATGAAGCTGATGAACGAATCGAAGCGGAAATCGCGCAGCTCAAGAAJJA
 TTTTGTGCAAAACGATACGCGGCTGCAATTCGCGGCAACGCTTCTCATATCGGATATAT
 CTTGTTTTCAGAGCGCATTAATCTCGATGCGGCTGAATGCTTCCCTCTCAGGCTT
 CCGCGGCTTTTACGCGCGGCTTTCGCGAACCGCAAGAAAGCTCATGAGCTGAATA
 AAGTTTATATCGCAACCGAGGCAATGCAATTACGGGTACTCGTCTGCTGCCCGGAA
 TGGGCAATGCGACCGTGCCTGCAATTCGAGGCGCAAGACAGCTGCAAGTCAAAAC
 TCGCGGCAAGATCGTGTGCATCGGCTTGGCGCTTTCGCGCAAAAGCTACTTTAAGCTCC
 CGCGCATATCGCGCGCGGCAAGTAACTGCGCGGACGCTGTCCATCCGGGTTACGGTT
 TCTTTGCCAAAACGCGGATTTCGCGCAACAGTGTGAGCAGTCCGCTTTACCTTTATGCG
 GCGCGAAACCGGCACTTCGCTGATGGGCGCAAAAGTCTCGCGCAACGCGGATGA
 TAGCGCGGCTTTCGCGGCTGCGGCTTTCGCGCAACCGCAAGAAAGCTCATGAGCTGA
 AAATCTCCAAATCGCGGATAAAGTCGGTTATCCGCTCATATCAAAAGCTCTGCGCGG
 GCGGCGCGGCGGATGCGGCTGTTGCGGAAAGAAAGAGCTCTCTCAATCTGCGGAA
 TGACCAAAAGCGAAGCAGCGCGGCAATTCGCAACCGGATGTTTACATGCAAGCTATT
 TGCAAGCTTCGCGGCACTGCGAATCCAAAGTATGCGGACGAACAGCGCAACGCTCT
 ACTTTGCCGAGCGGACTGTTGCTGCAACGCGCGCAAAAAGTCTACGAGGAAGCAC
 CGGCTCGCTCATCACTGAAAAGAGACGCGCAAAATCGGCAAGCGCTGTGCGGATGCT
 CGAAGCGCTGCGGATTCGCGCGGCTACGTTGAGTTTATGAGAGCGGCTTACGCGGCA
 TTTCTTTATGATGAACACGCGGTTTTCGCGCAACCGGCTGACGCTATTTTGGAAGCTCG
 CGGCTGGACATGCTGCAAGGCACTCGCATCGCGCGCGGCTGCTTTGCAATACA
 AACAAAGGATTAATCAAGTCGAAGCGGCAACGCTTGAAGTCCGATACGACGCGAAGACC
 CGTAAACTTCAATCCAGCGCGGCTGATGAAGCTGCCACTGCGCGGCGGCTTCG
 GTATCGGCTGCAAGCGACATTTACCAAGCTACGCGCATCCACGCTACTACGACAGCC
 TGATCGGCAAAATCTGCTGACACGCAAAACGCTGAGCAGGCAATGCGGAAATGCGCG
 CGCAACGCTGCGGATTCGCGCGGCTACGCTAAACCAATGCGCGGCTTACGCGGCA
 TGTTCGCGGCTGCGGCTTTCGCAAAAGCGGCTGACGCTATTTTGGAAGCTCGG
 TGGAGATGCGCAAGCGCAACAGGCAAGTAAACGCGCGGATGCGCTGCGAAGCG
 CCGCTCGCGGCTTCAGACGGCAATTCCTTCCCGCGCGGCTGTAACCGGATTGATAT
 AGTGATTTACTTTAAACAGTACGGGCTGCTGCGCTTACGCTCAAGAGAAAGATTCT
 CTAAGTGTGTAAGCAACCAAGTGAATCGTTGCTGCTACTTTGCTACTGCTGCGGCTTCG
 TCGCTTGTCTGATTTAAATCTCAATCACTATATTTCAGAAAGACCGGCTATGCGGCTA
 CCAACATCTGCTGCTGACGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTG
 GAAACGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTG
 GCGGATTTTCGCGGACCGGATGCGGCGGCAAACTGCGGACGAGGCAAGTCACT
 GCGGCTTTCGCGGCAACGACGAGCGCGGCACTATTCGACAGCGCGGCAAGAAATG

Appendix A

-438-

CGGGTTAAAGAATTGGCATACACGGGGAAACCATCGAAGACCAAGACTGGGTGGCGTCT
 CACGCAATCGCAATTCGACCCCATCCGGGATTTCCGACCGGCTGTGGATTACCCOCTCTTG
 GCAUGAAGTCCCGGAAGGCAGTGGCGTCAACCTCGCGCTCGACCCGGACTGCCTTCGG
 CACCGGCGACCGACCGGACCGCGCTCTGCTCAATGTTGGATACGCACTCAAAAA
 CGGGGAAGGCTCTCGTACTACGGCTGGGTTGGGCACTCGACCATCGCGCGCTCAA
 ACTCGGTGAGGTTTCGGCGTGGCGTGGATATTGACGACACGGCGCTCGCGCGCGGCA
 GACACCGCGCGGATCGATGACCAATCTCTCTCGCGCGGCTGGCTCGA
 AGGCAATTCGAGATATTGGTGGCAACATCTCGCGCAACCTTTGGGTATGTTGGGCA
 AATGCTCGCGCGCGGCAACCAAGCGGCGGACGCTGTTGTGCGGTTTGTGGACGA
 ACAGCGCGAAGAACTCGCGGCAATTACAGCCAACTGTTGACCTCGACCGCGGCGAAGAC
 CGAGGAAGGATGGGCGGATTTGACGCGCTTAAACGCTGAAACGGGAAGGAACACCGTG
 CAGGATAAAACAACTCTGCTGGCTGATATGGAATGACGGGCTGANTCCGGAAC
 GACCGATTATCGAGTGGCATGATTATTACGACTCGGATTTGAATGTTTGGCGCA
 TCCGAAGTTTACGGCTCCACCAAGACGACAGCTCTGACAAATGACGANTGAC
 ACGCCACACCGCGGCGGCGTACACAAAGCGCTACGCGANTCTGCGATACCGAA
 GCGAAGTGCACAGAAACTCTGGACTTTATGTGGAATGGGTACCGGACGCGCCAGG
 CCGATGTGGGCACTCATCCACCAAGACCGGCTTTATGGTCAAAATATATGCGAAG
 CTGGAAATCTACTTCCACTACCGCAACCTCGACGTTTCCACGCTGAAAGACTCGCCAAA
 CGCTGGAATCGCGCGCTTGCCAAAAGCTGCTGTAACCGCGGTTGCGCAAGCCATTGAC
 GACATTTTGGGAGCATCGAAGAATGGCCACATACCGGACACTTTTGATTTCGCGC
 CGGAGCGCGAAGCGCAATAGAAACAACTGCTGTTGCAAGCGAGTTTGCAATTCA
 GACGCAATTTTACAGCAATGATCAACATTTTACACGCCCTCTACCGCGGACG
 CGGGAATCGGAGAGTGGCGGCTGCGGTTATTTCAATCATTACAGAACTGAAAGGTTCT
 GGATTCCGCGCTCGCGGGGAATGACGGGCTGTGCAITCTTATAGTGGATTAAACAAAT
 CAGGACAGGCGGACGAGCGGCAACAGTACAATAATGACGAAACCGATTCACTTGGTGC
 TTTGACACCTTAGAGATGCTTCTCTTTGAGCTAAGCGGAGGCAACGCGCTACTGGTTT
 TGTATCTCACTTACTTCAATCTCGCAACAGATGAACAGAGAAACCTGTCCGTCAA
 AACATCATTGACGATCGCTTGAACACTTCAACCGGCAACCGCAACGTTTGTCAATCA
 CTTCGCGCTTTTACAGCAATGACGAACTTACAGCGCGGCGGCGGCGGAGGCA
 CATTCGCTCGAGCATCGCTGGGAAACATGTTTGAAGCTTCAATATTGGAGCGCGCA
 TATCGGCACTAGTTTTCGCGGCGGCTGTGGCGGAATACAGACGCAATACCGCCACG
 TGTGGCGGCTGAAGCTGATGCGCGCGCATCGCTGCGCTCGGAAACCTTGAACCACT
 GTTCCGTACGCGCGTCAAGTTTTCATAGAGCTTTCGCGTGGATGATTTCAGCGTTT
 CACGCGCTCGCGCGACAGATCGGTTGCCCGACAGGTGCTGCTGCTATACACGCGC
 CACGCGGGGAATACATTCATTAATGTTTTCGCGCGCAACGCGGCGGCGGCGGATAC
 CGCGCGGATGATGATTTGATCTGTGTCAGCTGCGGCGGATGCGGCGGCGGCGGCGG
 CGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 ATTTTTCGCTCAATTCGCGCAAGCTTTGCAAAAGCTTCGCTCGCGGCGGCGGCGGCTCA
 TATTCCGCGAAGGGTTCGACATCAGCGAGCGATTTCATTGCGGCTTTGAGCAAGG
 CTCTCTCGAGTTGGCGGATATTGTTGACTCGAGTACCAAGGTGTTTGGTAAAGTCG
 CAGGACACCGCGGGAAGCGGTTGCCAAGCTCAGCAGACCGCTCGCGGCTTTCACCA
 CGAGGCTCGGGAATGCGGCTGTGAGCGGCTTCAACTGTGATGATTTTTCAGCGCGG
 TAAACCGCGCTGCGGCGGATGGGCTCATGTTGCTTCGGTACCGGAGTACGAGGCG
 GACGCGCTCGCGGCGGCGGATGTTTGGCGGATTTCTCGGCAATGAGATTTGCGCT
 CGTAGGCGCGCGGCAACAAACCGCAATGCGGCTTGCATACGTTTTCGACACT
 CGGGCTGCGGCTGCGCAATCGAGTCCCGACGAGCGGACGTAATCGGTATAGCGG
 TGCGGTTTCTGCCAACATACGCGCTTCGGCTTTTGTATAAGCGCGTACGCGCG
 CGACGCTGCCAATGCGGACGCGGGAATTCACGCGCGCGGATGATGCTTTGGCG
 GGTGGAATAAAATTTGTTACGGTTCATATATATCTCAAAATGCGGCTGACCGGAGGT
 TCGGCTTCGGAACGAGAGCGGCTTTTATCATTTTCAGGTTGGGACAGGATTTTC
 CGCTCTTTTCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 CTATTGTTGAAGCGGTAGCTTCGAGGACTTCCTCCGCTGCTAATCACACCACT
 CCCAATGTCGGCTTCTGATTTTATATAAATGAAATTTGGTCGGCAAAATATATAATG
 CGAGGCTGACTTCTATAGGCATAAACACCGAAAGGTTGCGCTTCGCAAGCTGCGT
 CTACACCTCCGCGCGGCTGCTTTGCGCTTTAAACACGTTTGTGGATTCCTCTTCGCT
 CTGATATAGTGAATTAACAAAATCAGGACAGCGGACGAGCGGACAGCATACAGATA
 GTACGGGACGCGGAGGCGGCGGCTGTCTGCTTTTGTATAACATTAACGAGGAAT
 GATGTTCCGCTTCGCGGAATCTGCTTACAGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 AAGCAAAACCGGCGGCTGATCTGCGCTTCGCGGCTTTCGCGGCTTCGCGGCGGCGG
 AATCATATTAAACAAATCTCGCTTCCAAACCAACCTGCTGCTATAATCGCACG
 ATTTTCAGCGGCGATGCTGTGCGGCTGAAATTTTTCATTCCAAACCAATCAGCGCG
 GCGATCTCGGCTGCTGAGAAACACCAACCATGAAAAAGTATTATCCGCACTTGG
 GCTGCCACATGAACGAATACGACGCGCAAAATGCTCGGCTGCTGCGGGAAGAACG
 CGGGCATCGACGAGTTACCAAGCGCACGAGCGGACATCATCTTGTCAACACTGCTG
 GATGTTCCGCTTCGCGGAATCTGCTTACAGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 AAGCAAAACCGGCGGCTGATCTGCGCTTCGCGGCTTTCGCGGCTTCGCGGCGGCGG
 AATCATCATCAAAACCGGCTGCTTGTGCAAGTGGTTTTCGCGCGGCAAGCGCTCAC
 GCTGCCAAAATGATTGGGCAAGAACACGCGGCTGCGCAAGTGCATATTCTCT
 TCCCGGAATCGAAAATTCGACACCTGCCCGCGCGCGGCTGCAAGCGGCGGCGGAT
 TTGATGATATTATGGAAGCTGTTCCAAATCTGCTCTCTGCTGCTCCCTCACGCG
 CGCGCGGAAGATTTCTCCGCGGCTCAACGAGTATTGACGAAATCGCAACCTTGGCC
 AGCAAGCGCTGAAGAAATCAACTCTTGGGCAAAACCTCAACGCTTCCGCGGCAAA
 TGGACAGCGGCGGCGGCTGATCTGCGCTTCGCGGCTTTCGCGGCTTTCGCGGCGGCGG
 GCATCGAAGCTATGGCTTCAACACGACGCGCGCGGCGGCTTACGAGCTGATATG
 AGTGCATACGCGAGCTGCCAAATGTTTTCACCTGACCTGCGGATTCGAAGCGGTT

-439-

TCACGCCGCGATTGTCGCGAATGAACCGCGGTACACCGCTTTGGAAATGAAGCAATCATCA
TCCGAGGCTGAGGCGCGCTCGCTCGCTGATTGGTTCGTCGAGACGAGTATTCATCTCGGTGGT
TCCCGCGGACGACGCGACGACGGGATTCGAGCAACGCTTGAAACTGTCGTGAAGACATCCGCT
TCGACTTGAGCTTCGCTTTTAACTAGCTCGCGCGCGCGCGAGCGCTCGCGCAACATCCG
CGGACGACGACCGCGCGACGAGAAAGAAATCGCGCGCTCGAAGCGCTTGAAGCAAGGTCATG
AACCGCAAGGACGCGGGGCHTAACCAACATGCTGCGGCTGAGCTACCAACGCGCTCGGTG
CGGCG
TCAACTTCACGCGACGCGCGCCATCTGATTAACAAACATCGATTGGAAATCAACGACGAG
CTCACCATCTCTCCCTCGCGCGCAAGTTGTGCAAGCTATAACCTCGCGCGCGAAAAAAT
CGCGCTCGAAGGCTTCAGACGCGATTTGCTGTGTATGTCAGACGACGACGCGCGCGCGCG
GGCGGTAAATTTTCGCGCTTCGCGTACGACGACGACGCGCGACGCGCGACGCGCTTCGACGCT
TCGCGCTACAGGCCAAATCTCTTAAGATTTTTCGCGATCGCGCGTTCGCGCTCGCGTACGTTA
ACCGCGCGCTCGCGCGCGCGCGCGCTTCGCGCTTTTCGTAAGGTAACGTGACGCGTCTGCT
TCGCGCGCAAGCGCGACGAACTCTGCTGTATCGCTTTGACGAAGCGCATATCCGCG
ACGTGCGGCTGAGCATTTTTCGCAACCTCGACGACGACGCGGGGACGACGCTCGCGCGAAGCA
ATGATCGCGCTTCTCCACTTCGCGCGCGCAATTCGCTTCGCGATTTCACAGTCTTC
CGCGCTCTGAAACGCGCGCGCGTACCGCTCGCGCGCGGATGACGCGCGCGCGCGCGCG
CGCGCTGCGCTGATGACAGGCTCGAAGCAGCAGCGCGGATTAATTCATCGCTCGCGCGCG
CGCGCTGCG
GGCGCTTCG
CGCGCTTCG
AGGCGACGTTCGTCGACCAATTTGCTGCTAGGCGCGCTTTAAAGGCTGGAAATAATTCGCG
ACGACGGGCTCTATCCCTTCGACGCAACCGCGCGCAACGTTACCGGCTCGCTGCTCGCTCG
CGCATGCGCGACGTGAAATAGGCTGCGGGGAATCGCTTTCACCAACACGAGCGCGCTCG
CTCG
CGCTTCGCGCTGCG
ACCG
CG
TCGCGCTTTTCGCGAAGCGCTTTGCTTTGCTTCGCGCTTCGCGCTTTTCGCGAAGCGCTTC
CGCGGCTTTTCGCGAAGCG
TCGCGCTTTTCGCGAAGCGCTTTGCTTTGCTTCGCGCTTCGCGCTTTTCGCGAAGCGCTTC
CGCGGTTTTCGCGAAGCGCTTTGCTTTGCTTCGCGCTTCGCGCTTTTCGCGAAGCGCTTC
ATGCTGCG
GCGGCTGCTGCGCGAAGGTTTGTCTGCGCGCGCGCTCGCAACGCGCGCGCGCGCGGATGAGGCT
GAGGAATGCCCGACGCGAAGCG
AACCGCGCATTTCGGCGACGCTGCTGCGATCTGCTTTCTCGCTGCTTCAGGATTTCGTGCG
GATGAGCTTTGTGTCGACGATCCGACAGGCTGCTTCGCGGCTGCTGCTACGATGCTGCTAC
ATGCTGCG
CGCGACGATTCACGAGAAGGCTCG
TGCTGCTGCTTTTATGCTGCTGCTGCGGCTGCGCGCGCGCGCAATTATATATACAGAGCGCTCGCG
CTGACGCGCTGTTGTTTGGCTATTCATTCTGCTCAAGCGCTGCGCGCGGCTGGGCTCTGCT
TCGATACGCGCGCGCGCTGCTGCGAATGAGCTGCTGCTATAATCTCGGCTGCTGCGAAGG
CTGCTGCTGCGCGGAGCTGCTGCGCGCGCGCTGCTGCTGCGCGACGCGATGCAATGAGTGT
GCG
CGGCTATTCG
GCGGCTACGCGGCTTTGCGCTCGCGTCCGCTGTCGACGACGAGCGAGATGTTTTCGAGGCT
TCGACGCTTTTTCGCGAAGCGCGCGCGCTGCTGCTGCTTCGCGCGCTTTTCGCGAAGCGCT
AACCGCGCTTCGCGAATAGCATCTGCTGCTCATCAAGCGCTGATCTACGCTACGCGCG
AAACGCGCTGCGCGATCTGCTGTAACAGAGGCTGGTTCGCGCGCGCGCGCGCGCGCGCGCGCG
CTGCTGCTGCGCGGAGCTGCTGCGCGCGCGCTGCTGCTGCGCGACGCGATGCAATGAGTGT
GCG
CGGCTATTCG
GCGGCTACGCGGCTTTGCGCTCGCGTCCGCTGTCGACGACGAGCGAGATGTTTTCGAGGCT
TCGACGCTTTTTCGCGAAGCGCGCGCGCTGCTGCTGCTTCGCGCGCTTTTCGCGAAGCGCT
AACCGCGCTTCGCGAATAGCATCTGCTGCTCATCAAGCGCTGATCTACGCTACGCGCG
TATGCGCGCGCTGCTGCTGCTGCTGCTTACCGTCGCGGACAGATTTTTCGCAATAAGCGCTC
AGTATTCGCGGACGCTGCTGCGAAGGCTTTCGCGAATCAATAAATCAATAGGAATCAATCT
GCG
TCGTAATAATAAATCAAGCGACTTTATGCTTTTCTGCTTAAAGAAATTAATAATCC
GCTTATTTACCTATTTGCGAAGGACGAGATGAGTACGACTGTATCTACGCGCGCACTGCT
TGCTTCATGCTCGCGAAAGACGACGCGCTCGCGCGGCTTCAAGCTACCAACACTCGAAC
AGATGCGCGCGCATCTGAGGCTGCGGACGAGTGTGACGCGCGCGCTGCTACGTACGCGCGGCT
TGCCTGCTGCGCGCGAATAATGCGGCTGGAGCTTTGCGCGCTACGCTGTTTTCGCGGCTG
TCGCGAAGTTTCG
TCGCGAAGTTTCG
AAGACGCGCAAAACCCCTCTCTTACAGATAACAAGTCAGACCGACCGACGCTACCGCTGGT
CTGCTTCCGACGCTTCGCGCGTATCTGCTGTAAGGAGCGAATCGCGATTTGCGACGACCTG
AAACCGCGCAAGCAGCGACGAGGAGGCTGTAGCGCATGCGGCACATTTCCACGCGCG
AAATGTCGCGCGCTCGCGCTCGAGTCCGCTGATTTCTGCTTAAAGATTCGCGGCTTGACGACT
TGGCTATTGCGCTGCGGACGACG
TGCAGCG
TGTCGACGCGCTTCGCGCTCGCTTCGCGAAGGCGCGTGAAGTACTCTGCAATCGACGCGCG
GCAATCTGCGCGCAACTGACGCGCTCGCGCTTGAAGATCTCGGAGGCTCGGAGGCTCAACAC

-440-

[illegible]

Appendix A

-441-

GCGCGCAAAAGCGTGCTGCCGGCATAGACGACCGCGCTGCTCGAAGGTGATACCTTAAAC
CAAAGCTCGCGCGCGACATCGGGCTGTTGTTCGCAACTGGGCGATCAGGCTCGTCTCATCCAA
CGCGCGCGCGCACTTCTCGACCGCACGCCGCGCTCAAGGCCGACGCGGCAATTATTG
CCGGGGCTTGGCGGTTACCGACGAACCTCGCTCGAACAGCGCGACGAGTTTGGCGGGCAC
CGTCCGACGCGGTTTGAAGCGGCATTGTGGGGCAGCGTTTCGGGGTTGCGCGCGCGGCC
TTCGCTCCCGCTGATTCGGGCAACTTCTTGACCGCGCGCTCCGATAGGTGTGATTGAGCG
AACGATATGGAATACGCTGCGCGCTTATCGCAAAACGCGCGCGCGCGCGCGCTTCGA
ACTCGACGCGCGCAATCTGCTGGCTGCCCGCGCTCGACATCTCTACAGCGCGCAAGC
CTTCTATCTCGATATGCTTCRAAACCGCGCTCCGCGCGCGCTTCGCTTCAGGCGCGAAAC
ACTGTTTACTTGACCTTTTCAGACGGCATTTCGCGCGCGACGGCACGCTCGCGGAAAC
CCTCTGGGCACAGGAAGGCAATCGGCTGGCGGAACACGCGCGCGCGGAAACGGCAGCGGT
GATTTCGTCGCGCTTGGCGCGCTCGAAGGGGGCGTGATCGCGTTCAAATCTTCAACGCG
AGGCGCGACGGCAGCTCTGCTCAGAACTCTTCACCGCGCAAGGCAATGGCAGCTCGCAT
TGGCAAGAAAGCTTCTGCTTCATCGCGCGCGACAGGCGCAATCGCGCAATCTTCAACGCG
CGGCTCATCGCGCTGCTGTAACACCGTTCTCGACGGCATCTGCTGACCGCGAGCGCAATCT
CGAAACCCACATTTCCGAATTTTCCATCTCGAACACGACGCGCAACTGTACGGTTGGCG
CGCGCTGAAACCTTTGCCGAAGCGATTTCGCGGAAATCGGCTGCGTTGCCGTCTCGCG
CGAGGACAGGACGGCGGCTACGCGCAACGCGTGTCTGCCCATATTATGATAAGCGCGCG
CGGATAGGCAATAGCAGGCTGTTCCGACTGTCCACAAATACCGGCGAATGGTTTGCGA
ACGCGGCTTTCAGACGGCATCGGAAGCGAGTTTGGCGGAACGGCGCGCAAGACTACGCG
CAGCAACGGACGGATTCGATATTCTGGTACGCTGGCTGACGCGCTGACCGCGCAACGGAA
AGCGCGCGCAAGATGCTGCTGTAACACCGTTCTCGACGGCATTTCCCGGATATATATG
GGATTAATTTAAATCAGGACAGGCGACGGAACGCGCAACGATTCAAATATGACGGCA
GGCAGGCGAACGCTGTACTGTTTAAATTAATCCACTATAAGACCTGGCCAAACCTCA
AGGACCCGATGAATCTTACCCGACCCCTACCGGCAATTTGAAACCTCGATTCCGCG
GAAACGAAACCTTCGCTGCTGAAGCGAATGCCGAACGCGCGCGCTTTTATGAAAC
GACAGGCGCGCGCGCTTTCAGACGGCATTTTGGCGGATTCGAGGACGCGGCGCATCG
TCGTTTTCGAGAACCGCGCGCGGCGATGTACATTTTCATCATCAGACGCGGAGTATCG
AAGGCGGTGTCACGCGCTGCTGTAACACCGGATCTTCGACGGCATTTCCCGATGAGAA
ATCTGTTTTCGCGCGCGGATTCGACGAATTCCTGGCGGACGATGTGATTTGGCGCG
GTGTCGCACTTGTGGAACAGCCCAACGCGGCTTGTATACACTGAGCAATTTGGCGAGC
GATACGGCTACACGCTGGAAGTGATTGGAAGCAGGGGATTTGTGGAAGCGGTTT
CACTTTCCGCGAGGCAAAACCATGTGTGTCGCGCGCATGAAACACGCTGTGGTGTGT
CCGCTTGGCAACGAGCGCACTTGACCGCAATCGGCGCATCCGCGGAGTATGGCTGGT
GAGCGCGCAGAGTTTCGAGAAAGCTTCGCTGTGATCAATCGGCAAGCGGACGATG
ATGTAACGCGCGCTGCTGATTCATCGCTGCGCGCTGCGGATGATTTGATGAGCG
TCGCGAGCTTTTACGCAAAACCTATTTCGCGCTCTACCGGAGCGAGCGGAACCG
TTAAAGCTGGCGCAACGATTGCGAGCTGTGCGGCTATCTGGCGGGGCACTTTTTCGTGACG
CTCGCAAGGACTGGAACCGCGCAACCAAGCTATTCGAGCGCGCGCTGTGGCGGCTG
AAGCTGAATCGGCGCAACTCGGCGCGCGCAGCTTTTGTTCGCGCGATGAAACGCGAG
CGATTGGAAGCGTGGAAACGACCAAGCGTTTGTGTTGGCGAGCTGTGGGAAGCTA
CAAAGCGCTCGAAGCATGGCGGTTTTCGCGCGGCAATGGCAGGAAGTCAATTGGCG
CGCTCGCTTCGGCGCGTGGGAATGACCGACCAAGCTTCGGCGCGGACGATGGTTTAC
CTTTCGCGCAGCGATTCAGCACGCGCTGACGCGCTTTCGCGCTGATTTGAGCGGATG
GAACTGACCTCATCGCGCGCGCAGCGCAGCACTTGAATCAGACGCAATTAAGCTGACG
CAGTTTGGACGACTTCGCTGACGCGGAGCGCATTCCTATTTCACGCTCGGCAAAAC
GC CGCGCGGACATGCGGACGCTGCTTATGCTTACGCGGTTTCGGCATTCGCAATTG
GCGCATTTATCGGCGCATTTGCAAAATTTGCTGGAAGGGCAATGCGCTTGTATTG
GCGAAGATCGCGCGCGCGCGGAGTTTCGCGCGGCTGGCATCAGGCGCGCGAGGAATC
AGCAACATAAAGCGCTGATGATTTATTTGGCAGTGTTCGCGATTTCCTGACCGGCT
ATCAGTTTCGCGCAGCTGCGCGCTGCGCGCGGCGGCGGACGCGGATCATCTGCG
GCCGCTTTCGCGCGGCAACGCAAGCATCGCGCGCTGGTGGCAAGTCCGCTGAC
GACATGATCGTTATCCGCTGCTCTCCCGGTTCAAGCTGGACGAGCAATACGGCAAT
CCGCAAAATACGAGTCTGCAACCGCGGTTGGCGAATTTGCGGCTATCACAATCTT
TCAGACGGCATGATTTCGCGCGCGCTCATACCAACGCGCTGCGACGATCGGCTC
GATCGCGCGCGCGCTCAAGTTCTACGCGCAACGCGCGGAACTCGCGCAATCTTGG
CTCTACTCGCTGACGCGCGCGCATACGCGAAGCGACCGCAACGCGAATCGCGCGAC
GAACTCGCTGCTGAGAGTGTGCGGCTGCTGCTGATTCGCGCGAGGCGCGGCGGCGCT
ACTCGCGCGCGCAATGAAAGAAAGCTGCTGAATGCTTTTTCAGACAGCTTTTAA
TGGTTGTTTCAAATCAAATATCTATGCGCGCGCGCGCATCAGCATCTTCTCACATCGA
AGGCAAAATTCGTAATGCGCTGGAACGCTTGTGTAACGCTTCGCGGTGGCGGTAGCG
GCARAAGTGCAATGGCGCTTGGACGCTGCTGCGCGAATCGATGAGGCGAGCGCGTGTTC
CAGCGCGAGCGCGCGAGGCATCCGCGAGGTTTCGCGGTTTCGCTTTGAAATAGCG
TTTCAGGTAGCATGTTCACTGCGAGCGCGCGGAGATTTCGCGCATGTGTCAGCGAGC
GGCATTCGCTGTGAGAGTGTGCGGCTGCTGCTGATTCGCGCGAGCGCGGCGGCTTC
GTGCGCAAGCGCGCGAAGCGCTCGAATCGAACGCGCTGCAACAGTGGCGAGCGCGC
GGCGGTGATGTCGCGCTGCGTTTTCGCGCGAGCGCTGCAAGCGCAATCGGCTATTGTTG
GGCGGAAAGAGCGGCTTCGTCAGGAAGCTTCTGCTGTCGCGCGCGCGGAGTTTTCAC
CGAATAATCAAATGACGCGCGCATGCGCTGTGTCGCGCGACGAGGTTTCGGATAC
GCTCCGCAATCGCGCGCTACACGATCAGATTTCGCGCGCAGATGGCGGATATCCCTGCG
GCCATTTTGAAACGGTTTCGCGCGCAACCATGCGCAACAGCGCGGAGTTTGGCTGAA
ATTGCGATTTCG
GCCGCAATCGAAGCGGTTGATCGAGATTTCGAGATCAAAACGCGGCTGTTTGCCTGCGC
AATGAGCGCGCTGCGGACAGCGCTCAACGCCACGCGGATTATGCGAGCGGACATA

Appendix A

-442-

GGTTTGGTACTGCGGTAGATGGCGGGTGTTCATGATTGGATAGGAACGAGTTTGTCTA
 ACAAAATGAATTAATGAAGTAATTTATCAACATATCAAGCGCAGGGATTGGTTGAACACGGA
 AAGGTCGCTCGAAGGGTGTTTCAGACGACCTTTTCGGTATCGGAATTTGTTTTCGCG
 TATCGGGAATTTTCGTTTTCGGCGGTGGTTCTCGAGGTGTGTTGCTTAATAATAAACA
 TTCTTATTCGTATGCAAGGAACCGCACCGCTGAACCGCGGTTTTTATTTGGGCGCGCTG
 CGCGCTCGCTGACCGGCTGTTTCGGCGAGACCTGCGCGCGGAAAAACCTGTTATCCGCGCG
 ATCCGATCTGCGCTGCGCTGACCTGCGCGCGCGCGCGCGCGCGCTGCGCTGTCGCGGA
 GAATCCCGAAGCGCGCGCTGTACGATCGGCGCGCTGTGATACGTCGACGCAATTTGGG
 CGTGAATCTGGGCGCAACCGCGCGCGCTGCGCGGTGATTTTCGAGCTGCACTTTGA
 CAAGCGGGCAACGCTGGGACGCTGTTGAGCCGATACGAAGCCCTGCACCGCTACAA
 TCCTCAGCTTGTCAATACCGCGCGCGCGCGCGGAAGCTATGAACGTTAGCGAAAAA
 CGCGACACCATAGACTCTGACGCTGCACACCGCAATATCCGACACGCGCGGAAAAACA
 GATGAGAACCTTTGGGCGGATTTTCGGCAGGAAGCGCGCGCGGGGAATTAAGGCGGCA
 GATTGACCGCTGTGCGCTGCAACCGCGCGCGCGCAAGCGCAAGCGCAAGCGCGGCTG
 GCTGCTGCTTACGGGCAACAGGCTGTCGCTTTCGCAAGCTGTCGCTGCTGCGGCTGCAATG
 GATACACGGCGCATCGGCTACCGCTGTAGACGAATCTTACGCAACGAGGGCGACGG
 CGAGCTGTTGCTTCGAATACATCAAGGAGAAAAACCCGATTGGAATTTTCATCATCGA
 CCGTACCGCGCCCATCGGCGAGGAGGGCGCGCGCTGTGGAATTTGGAATAACCGGCT
 GGTACGCGCGCAAGACCTTGGAGCGCAAGCAATCATCGTATCGCTCGCGCGCAACTA
 CATTGTCGCGGCGCGCGCGCGCGCTGATTTCAGCGCGCGGAGCAAGTTGAAGCGCGCTT
 TAAAAAGGACAGACCCCTTCGGCGGGGGAAGAAAGTAGGAGTGTGTTGAACAGGAGACT
 TCGAGGAGACGGCGGCTTCTCGAGCTGAAGTGTGTTCAAGCAATTCGAAGCA
 CTTGTATCTTGAATAACCGCTCAAGCAACCTACGCTTTGCCGCCCTTCCTAGCGCT
 CTCGCCAGGAGAGGGGATTGGGTTGACGGCTGCCCTTAAGGTTTAGCAAAATTTTAA
 CTTGTTGAAGCGTGCATTTCAGAAAGTCCGTTTATGCTTCGCAAGAACTCCGCTTCCT
 CGAAGACTCCGTTTTACAGCGACCTTTTGAGTACCGGAGGCAACGATCGCTGACCGCTG
 AATCAAACTTTACAGCGACTGGCAGCTCGCACCGGAGTTTATGCGCGCAACGAGGAGCT
 ACGCAACCGCGCGCTTCCTTCCTGTTGGAGAGGGTTAGGAGAGGGCGGTAAAGCGAGG
 CTTACATCAAGCGCTGCTTCGAGCTCAAGCTGCGCCACTGAGCTGACGCTGCAAGCA
 GAAGCGCAAAACGCAAAACCGCATCTCAAAACACCGCAACCATAGGAAGAACCATGCAAA
 ACGAAGCACTCAACTGAACAGCACTTCGCCGCAATCAAGAACTACGCGAGCCGCAAA
 TCATCAACCGCGCAGGGTTCGAATTCACCTTGGTCAAACTTTTGGCGATTACGCGCTGGC
 ATACGCAAGGATACGCGCAAAAGTGTGTTTTCGCGTGGAGGGCGCATGGCGGTGGAAT
 TCGCGCAAGCGCGCGCATGACATACGATACGCGCGGAGATGGCGGTCTCGCGAAGCTCGG
 TGTGCGACCGCGCGTTTCGGAAGACCGCTGCTGTTGCTGCTGAATTAAGTTGTGCGAC
 CTTGCGAGCGCTGCTGCAAGTTTCGAGGAGCTGCGGCTGCTGCGAGCTGAAGTAA
 CCGCTGCTCAATCAATATCCGGAATACCGCTGACCGCACCAACACACAA
 AAGAAATCCATGACAGCTTCAAAATTCCTCGCTGTTTTCGCGCGCTTTCGCGCGCTA
 CGCGAGGCGGATGTTTCTGTTTACAGCAGCCCAACCGCGAGGAAGCACTGAATTCGC
 GACCATACCGTTACCGCGGACCGGACCGGAGTTCCAGCAGCGCTACACTGTTTCGCG
 CACGCAACCGCGCTCGGCGCTCCATGACCTCGCGCGAAATCCGCGAGCGCTCAGCGT
 CATCACATCGCAAAATGGCGGACCAAAACATCAAAAGCTCGACCGCGGCTGTTGCA
 GCGGACCGGACGCGCGCATGATTACGGCTCGACCGCGCGGCTACAACTACCTGTT
 CGCGCGCGGAGCGCATGCGCACTGCAAAATCAAGCGCATCCGCTGTTGCGAGCGCT
 GCGCGATACGGCAATGCAACACCGCGCTATGACGCGCTAGAAGCTCTGCGCGCGCT
 GCGCGGCGCTGTGGAAGCGCGCGGCGGCTTCGCGCACCGCTCACTGCTGCGCAAAAG
 CCTGACCGCGAAGCATTTGTTGAAGTCGCGCGCGGAGCGGCAACCGCAAACTTCGCG
 GCTGGAAGCGGATGATCGGCGAGCTGAACACCGAAGGCAAGCTGCGCGCGCGCTGCT
 TTCCACCTTCGGAAGCGCGGACTGCTGGCGCGCGCGGCAACGCAAGCGGATGCGGAAT
 CTACGGCAATTTGGAATGACATCGGACCGCAACCGCGCTCGACGAGGATGAGCTA
 CACGAGCGGAACCAACCGCGCGCGCTGCTGACCTGCGCGCTGACGCTGACGCTGACG
 TTATGCGAACCGCTTCGCGCGAAGAACACCGCGCAAAATTTGGGCAAGCGCGCA
 CCGTGCCTCAACCTGTTTCGCGCGCATCGAACCGCTTCAACCAAGACTGGAACCTCAA
 AGCGGAATACGCTACACCGCGAGCGCTTCGCGAGCGCTACGCGGTAGCAGGCGTGT
 TTCTACGACCAACACCGCGCGCGCGAGCTGATTCCGCTGTTATGGAACCGCGGACCG
 GCGCAACCAAGCGCGAGCGTGTATTGATCGCAATACCGCTGTTGCGCGCGGAACA
 CGATTTAATCGGGGTATCAACGTTTCAAAATACGCCAGCAACAAATAGGCGGAACGAG
 CATCTCCCAACCAACCGCGCGCGCTGCTGACCTGCGCGCTGACGCGGTGACCGCA
 TCTGTCATGCTTTGCGCAACCATCGGCAATACGCAACCGCGCAATTTGGGCAAGCGCTA
 TCTCGCACCGCTTTCGCGCGCGCGCAACCTTCGCTGATTTTGGCGGACGATACAC
 CCGTTACCGCGACCGGACGCTACGAGCGCGGACACAGGCAATGACATGCTATGTCGCGCA
 CCGTTTCACCGCTTACAGGCACTGCTGACCTGACCGGCAACCTGCTCTTATACGG
 CTGTGACAGCGCTGTTGTCGCGCAATCGCAAAAGGAGCAACGCGAGCTACCTGAA
 ACCGTAACCGGCAACAATCTGGAAGACCGGATCAAGGCGGAATGCTTGAAGCGCGCT
 GAACGATCGCGCGCTGTACCGCGCGCGGTTAAAAACACCTGCGCAACCGAGCGAGCG
 CGACCGAGCGCGGCTGCTTACGCGCGCGCGCGCGCAAGCGCAACCGCAACCGCGGGA
 AATCGAAGCTGGCGCGCATCACGCGCGAATGCGGATACAGGCGAGCTACACGCAAG
 CAACACCGCGGACCAAGGCGGACGCGCTGAACCGCGGAGCGTACCGGAACGAGCTT
 CAACCTCTTCACTGCTTACCACTTTGCGCGCGGAGCGCGCGCGGCTGGAACCTGCGCG
 AGGCGTGCCTGCGAGGAGGAAACCGCACCGCTGCGACGCTGCGATCCCAACCG
 CGCGCGCAAGCGCGCGCGCGGACACGCGCGCGCAAAAGCTACGCGTTCGCGGACAT
 TATGGCGCTTACCGCTCAATCGCGCGCGGAGCTGTGCTGAAGCGGTGACAACTCTGT
 CAACAGACCTTACCGCGCGCGCGCGCGCGGAGCTGTGCTGAAGCGGTGACAACTCTGT
 CGCGCGCTTACCTATCGTTTAAATAGCGCTGCTGAAACCGGAGTTTCTCGCAAGCTA
 TAGTGATTACAAAAACGAGTACGCTGTTGCTCGCTTACGCTCAAGGAGACGATTCT

Appendix A

-443-

CTNAGGTGCTCAAGCACCAAGTAATCGTTCGGTACTATTGTACTGTCTGGGGCTTG
 TCGCCTTCTCCTGATTTTTGTAAATCCCACTATAAAGCAGCGCTGCACATTGAAAATCGCG
 CCCAAGCAAACTTTCAGTTTGGCCGCTGCTCTTACGCTCTCCACGGGAGAGGGGATT
 GGGGTGCAGGCTGCCTTAAGGTTCAAGCAAAATTTTACTTGGTGTATACCGCGCTTTAG
 CTTGCGCAAGCTGCACTTTCAGACGACCTTTTGGAAACCAACAGGTACACGATTAAAG
 GAATGCGCCTGGAATGCCCTGCCCTAAATACGACATCATGTGCGCCTCAATCTGGCGCGCC
 CATCATCGATCGATGCTGCTGATACGATTTTCAACCGGCTTTTAAACCGGCTCGCCCAATAC
 CATCGCGTATCGCTGCGGATACGCTGTGGGCAATACACCAAGGCGGCACATCATCG
 GGCAGCTGCTTCGCGCGAGCGGAATCAGATTCACTGGGATATGACAGCGATTGGCAGC
 GAACAACCGCGGCTTTCTCATCGGTACGCACTGTCACAACAACAAATCATCGCCCTTGG
 TCCATTCCAGCTTTTCAATTCGCGGGGCCAGTTGCAACAATATCCATTGCAACCCCAAA
 AAAAAACCAAGCAAAATCGCGTCTGAAGCCCAAAACCGGCTTTCACAGCGGTACGATGTC
 AACATCTTAAAAATCGAAACCGGCAACCGGATCGGCATCCTTATCATCAAAATCGGCCAC
 CAGGGTATCGAAGCAGCACTCTCTCTCAACACATGCGCCCTGGGCTATATCAAAAGCGC
 GCGTTGAACAGAACTTGGCGCATACGATTAACACCATGCGTCCGCATTTTCAATGTC
 TTTCAACACTTCAGCACAAGGTTTACGCGACCGCGACATAAACCGCATCAACCGCGCG
 ACCTGCGGAAGTTTGGTCAACCGGTTGTTTGACATATCGATATTGTCACAAACCA
 GCGCTCAACACCGCTTTGGCGCGGTTTGTGTTGACATCGATGTCGTCGACACCCAC
 ACGCAGCGCAATTTTGCACAACGCGGTCGATAGCGCGAACCGTGGCGATTTCCAA
 AACCGTATCGTTTTCGCTCAACGCTTCAACGCTGCGCGAGCGCGCGACGATTTGGCTC
 GAGCATCTTATGACGTTGGCAAGCGGACGCGCATATCCGATAGCGCAACCGCTGGA
 GCTCTCATGCAAAAGCTCGCGGCTTCCGCAACAGGCTCCACACATCAAAATC
 CAATCATCTCCAGCAGCGGATTTGCTGTGACACATATTGAACGGGCTTTTCAAAATC
 CATTTAGTGTCTCGTCAAAATATTGTTCCACAATGGCAGGATTAAAAACCACTCC
 CGCGCGCGCAACTTCGGCAGCGCGGACAGCGCGTTTGTGAGTCTCAACCGCTCGAGC
 CGAAGCTCAAAACGCTTCTCCAAATCTTCGCGAGTTTCGCGCAATACAAAGCATCGT
 CTCATCAACCTCGCGCAATGTTGCTGCGCGCTCAACACCGCGATACAGCGCGCTC
 TGAANAAGCGGCAAGCAAACTTCGACAGGTGACAAGAGCAACAGGCAATATGGTGGG
 ATGCGGTTGACATCTTTAAGTACCGGCTTACACCTTCGCCGAGGCTGACCGACAC
 CCGCGACCGAATCTTGGCGGTACCGGCAACCGCAAGGCTGAAAGTGGTCCCAACCTC
 TTTGCTCGGAAGCGGTATCGACCAATAAAAAACCCCAAAACACCGAAGCGCTTCCTT
 CAAAACCGCGCGCTGTTGCGCAAAATGCGCAACCAATCGCGCTGTCAGCCACACAGA
 CTCATATTCGCGGCAACCATCCCGATAAAGCGCGGCTTGTGCGAAGCGCAAAATGAAG
 CGCGTGATACATCTCTATAGTTGATACATATCAGCGGCGCATATATAAACGCGCTG
 CCGGAAACCAACTTCCAAACCGCGCGCGCGCGCTTCAAGTTGCGACGCGCGCATAT
 CCATCAAACTTCAGTTGCGCGCGCGCACGCGCGAGCAAAAAACGACACACAGCAAG
 AAAAAAGTATTAATCAAACTGGATCTGGCATCGGATCGGATCGATCGACATCGGA
 AATGAACCGCGCTCCAAAACACAAACCGCATGCGACCGCTTCGGCATCCACCGCAC
 CGCGGAACCGCTCTCATCGGATCGCGCGCGCGCGGTTACCTGCTGCAATGCAACAA
 CGCCATGCAAACTGTTTAAACAACTGCATCTCCATCGCGCCACAGAGCTGAGCGGCT
 CCCCATAACGCGCGTACACCGGCGAAGTGTGCGCGCAAACTGTCGCCGACACGCGAC
 AGACATCGCTCATGCGACACTCCGAACGCGAGCTTTATTTCGGGAAAAAACAAGAAAT
 CCACCGCGCAAAATGGAAACCTCTCAACGCTGGAGCTCATCCGCTTATTGTGGCTCGG
 CGAAGCTCGAAGCGCGGACGCGCAAGGCAAGCAAGAGTCACTGCGCATCACTTC
 CATCTCGAAAGGCTGCGATACCAAAACATCGCGCTGCGCTACGACCGCTCTGGCGAT
 CGGCACCGGCAAGTGGCCACCGTGAACAGATTGCGGATAGCAGCGATTCTATCAAA
 AGAAATCTTGCTTTGTGCGGAAGCGATGTTAAATCGCGCTCTTTACGGGGAAGTGT
 GAAAGCGGCAACGCGCGGCACTCTTCGAGTACTTATGTGGAGCGGCACTGCTCGCG
 CGCGCGCTATTGTGCTGACGACTCTCTTACCGGCATCATAGTGGCGCAAAAATGGGTA
 GAAATAATGGAAGCTTCAAAACCTTAATTTGAGTGTATATAAATTTCCGCTTTGGC
 CTCTATCTGTTTATCTCTATCTCAAGCGCAAGGCGGATGCGGCGCGGCGGCGGTA
 ATCGCGCGGACGCGCGCAAGCGGCTATTTCGCTCTGCGGCAAGCTCATCTCTCAG
 CCGCTGACCGCGCTTGCAGCAACTTTTCTTGCACCTGCTAGGCTATGTTGTATAT
 TCACACCCACAGCAAAAACACGGTTTGGACTTCGCAACGTACACAACTACGCAACG
 ACCCAACCGCTTAGCAATACCGACCTTCTGCCCTGTTCTCAGCAGCAAAATTAACA
 GTTTTCAATGCGCATGTTGTAATTTGGTAGACGCTATCTTGAAGGGGATGTGGCC
 GTAGGCTGTGCGAGTTCAAACTTCGCTGTGGCGACACACAAAAACCGCTGAAAAAT
 TCAGCGGCTTTTGTGTTCAATCCCACTCAGCGCTGCAACCAATCATCAATACACAGA
 TTTTCGGCGTATGCTGCGCTCTGCGCTGCGGCAAGGCTGCTGCGCAAGTCTGCAATG
 CCTTAATGAAGTACCTAAAAATTTACGGTATCTTTTGGGATGCAAAAATACCTCGA
 AAAAAACCGCAAAAATAAGCTGAAACCGCGCAATCAGGAATGCAAGCGGAAAAAGA
 GCTTTCGGGGATCTGCCAAGCTGAGGAACAGGGGGAAACCTCGAAGTGCAGGG
 CGGTTTTTTTTGGGTTTTTGGAAAAACCTATACTAGGAAGCGATACCTTTAGTTGTAC
 CTTGTTACCGGGGAAAGTTAGATATAATAGCATATGAAATATAGGATTAAATTTAAAT
 TCAGGACAGAGCGGCGAGCGCGAGCATGACAAATATGACGGCAAGCGAGCGCAACGCTC
 TACCGGTTAAATTTGCTCTATATATATAGAAATAGAAATACAAATTTGTAACAAATG
 CGGTAAACAACTGCGTAGCAATCGGTAACAACCTTTTGGGTTTTTCGGTTTTCAACGCTC
 TGGCATGGGAGCGTAGCGGAATGAAAGCCAAACGACGGAACGCGGCTATTTTGGAG
 CAGGAATGGCGTTAAACCGCTTGGTTATATACGGGGATAGGAAGACAGCGAAACCGCG
 TAAAAACGCAATTTGAGCGATTAAAAAGCGATTGATTAATAAATAATCAGGTTAGCGGC
 AGTGTTCAGCGGCACTAAACCGGAGAAATTCGGGGCATAAAAAAGGCGAGCTTGCCTGT
 TGTCTGCTTGGCTTAATTTCAAGTATCACTAATCAAGGCGACACAAATGCGGATATTC
 TAAACCAATGCTGCGGAAATTTGCGGAAAGTTCGGAAGCAAAATACAACTGCGCTGCTG
 GAGCGGTAGACGCGCGGATAACCGGCTGATAGACCGAGATTACGCGCGCTGTGATTT
 AAGCAGCGCATCGAAGGCAAGGACAGGCAAGCGCGGCTTATGCGAGCTGTGATAGTCTG

Appendix A

-44-

TTCAAAACAGGCAGCAAGGCATTTTGTTCAGCCCTTGCAGAACGACAGGGAAC
 ATTTCCGGATAAAGAACTTTGACGTTTACGCAAAAGCCGCCGATATTATCTGAATACACG
 CGGGCAGAGCTGCGGGCTTTGAAGAAGACGGCATTTATCAGGAGATGAATCATGAAT
 ACAAACACAGGCATTTAGCGGCCATTCATGAATGATGGAACGGGCTTACACATCGGG
 CAATCGACAAAAGACCATCGCGCACTTTGACAAGCTCTGCGTAGCCGAATCAACCGT
 TGAGCGGGGAGACATCAGGCAATCAGGGAAGAGGAGCACTATCGAGCGCGCTTTG
 CACATATCTCAGCTGCAAAATACGTTTGGCTGCGGCGGGCTTTAAAGC
 CAGCGCGCGGGCTGTGAGCTCGTACATCTGCAAAAACAGGCGCATCGAGCACTG
 CGTAGCCGACTTTGGCAACGGCAAAATCAGCAAGTTCAACAATGACGGGCTGCTGAATAT
 GCCTGCCAAGACGACGAAGACCGCGGAATGAATCAGGCGTAGCGCATAAATGCC
 GACCGCATCAAAACAGCGCAAAAGCGGGCGTGCAGACGNCATAGCCCGACGAAGGC
 ACGGCGACACCGCGCGAAACCGGAACATCACGACGCGAGGTACGGGGATTTTGTG
 CGCCGCTTGCAGGGGGGATTTGATTTAAGCGGGCGGGGCTTGAAGGCAAAAGCGGTGCG
 GCACAGAACTGTTTAAATCGAGTCTGAATCTCAACGATTTACAGAGCATTTTGAACA
 ATGCGTAAATTTGCGATCCCTTTCGTTAAGCGGAGGTTTTTATTAAGCGCGCTT
 ATTTCTGACACTTTGCTCATAAACCGGCATACCGCTCGGCAACACCGTTTATGATTTTC
 TATACGGGCATTGTTTTCGATGAGTAGAGGTAAATGACATAAATAAGCGGTTTTGCTC
 GTTTTCTGATTCATTTTTCGCAACCTGACAGCGCGCGCGATGATAGCTGCGTC
 CGCCATCAACATCATTCCCGCTCATCGGCTTCTTCTCAAGCTGCGGCTATAAGGCAA
 GGTAAAGCCGTACGTCGCCAAATATCATACCAATCGACCAATTCGGATGATGATC
 CGGTTTTTCTCATATATACTTCGCTGCATATCGCGCGCGGTTGTTGTAAGATTTC
 CTCGCCGACCTTATTTTACGTTTCATCGAGGGGCGCTCATTTATCGGCCATAT
 GCGCGCAATTTGCTCATCTGCACTTTGAGTTTGTGCACTATCCCGCTATAAAGCGCAT
 TTTTCCACCGGCATTGCCACGGTTCAGCTCATCGTTTGAAGAACGTCATTTTCCA
 GTCAAACTTATGCTGGTATTATTTGCCCATCGGCATAGGCGAGCATACGTCGAAATAC
 TGCGTCACCCCTCGGGCTGTTCTGGATGTGGTATCGACATTGCGCGAGACTTGTTTAA
 CTCACCGCTTTTCATATAATCTTTGCGAGCCGACGCTCATTTGTGGCGGATCATGACC
 GTAAACATCAGCAGCAGCGCAAGCGCCCATCATCAGGATTCGCGACGAGCGAGAG
 TATCGGTTAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 AAATTTCAAAAAGTGGCTGTGAATCAAAAGGATTTGGAAGGAGCTTAACTATTGT
 TTAATGTTTTTAAAGATTTACACACGATGTTCTTCAGCTTCGCGCGTACGCGATGA
 TTTCTTGGCGAGCTTGCTTCTATGAATTTACGCGCGCTTCAGCGGCTATTGCGGAG
 CTCTTTCAGCGGTTTTGTGGAATCAGCATAAATGCAATAATCTCAACTTTTTTA
 CGGCTGCTGCGCTTTTGGCGCAATTTGCGCTGAACCTCAACTGTTTTCAAAATGGCA
 GAAGAATAAATACCTTTGTGAATTCAGTATCTGATTTGAAATCAAAATACCTTGGAG
 TTGGGCGCAATTTATTCATTTTGTGAATTCGCGACATCGGACATCGATTCGATTTG
 TCGCGCAGATATTTGCGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 TTGATGATGATTTTTCCTAATTCATATTTCGACATGATGATTTCTTCGCGAAC
 TTGGTCGATACATTTCAACAGCGCAGAGCGAGCTTTGCGCTCGGCAATTTGTTGGG
 TAAAAACAAATTTGATTTGCCATTTTTCAGAACGTTTTGCGGTTCAATAAGCGGAAT
 GTCTATTAAAGATTTTTCGCGCTTCAGGCAAGGGGCGAGATGATGAACACATAAT
 GTGGTTGCGCGGTTTTTAATGCTTTATTTGCGGATATATCATATCGGCGTGAAGA
 ATGTTTTGGGTACAGCACCAATTCGCGTATGAGTATACCGCTTTTTATATGCAAGAA
 GAAGAATTTGGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 ACGCAGCTGTTTCCATGTTTTGATTTTACTTTTAACTTAACTCATATCGCTGGCA
 ATTTGGGCAAAAGAGTCTGCAACAGGTTTTGATTTAGGCAATCTCTGCTCGGCTTGT
 TCGCAACAGGGGCGAGTAGCGCTTTTTTCCAACAGCTCGCTCATTAACAGGATTTT
 ATGGGTTGCTTTATTTGTGCTTTTCCCAATTCGCTATCGAAAAATAATCATGTTTTG
 GATTTGAGATTTCAGTTATTCGCGGTTGCTCATGAGCAACACATCCACTTAAAAA
 GCGCTCTGAACACCTGTTTCAAGTTTCAGACGCGCTTATTCGCTGCTGAACGTTTA
 AAGCGGTTAGACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 GTTTCGCTTCAGATGATTTCAACGCGCTTTCGCTGCGAGTGCAGCGCTTGAAGCGG
 CTTTGGATGCTGCGGCGCAACAGTATTTCGCGCGAGTTTTCGCTTGAATGAAACA
 TCACTTCGATTTGCGATTTGACCAAGCGGCTTCGTCAGCTTCGCGCAGCTGCTTC
 ACAGTTTCGCGCGCTTCAATTCGCTCCACAGGTTTCGCGAGTTCGCGCAGATGGGCG
 ACACAGCGCTACGCGGTTTTCAATACTTTTGGCGCAGCGCGCTGCTTTGCGCGC
 CGGTGTCGTTTTGCGTATTCGTTGAGCAATTCATCAACGCGCGATGCGGCTGTTGA
 ACTGCTGCGCGCGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCAGGTTTTGAGATTTTTCAGATGATGATGATGATGATGATGATGATGATGATGATGAT
 CGCTTGTCTCAGTATTCGTAACGCTACGCCACAGCGCGCGAGCGGCTGCGGCTGCGG
 CTTGACGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 ACAGGCGCGCGGTTGCGCGCGCTGAGGCGTTAATCAGTTCTTGGGATGACGCGGTTGT
 TTTTGGACTTTGACATTTTTTTCGTCGCGCTCATGACGAGCGCGCGCTGCTGCTTGA
 GAGCGCGCGAATTTGGCGGCTTTGCTGCTGAACCTCAGCTCGACATCGCGCGGTTGA
 TCAACTTTTTCGCGCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GCGTACGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TGGTGAAGAACCGCGCTACAGAGTGCAAAATGCGGTTTGCATGCGCGCATGATTT
 GGTGACCGCGCGCGCTGATTTTCGCGCGCGAGTTCGACCATGCGCTGCAAAATTTG
 GCGACATGTAGCGGAAGAAATCAGCTCGATTCATGAAGGTGCTCATGTTGCTGCTGCTGCT
 CGGCTTTCGCGCGCGCGCGCGCATGGCAGCTGCTGAATACTGGGATTTTTC
 CCGCGCGCGCAACCATCGCTGGGTACGCTTTTCAGGCAAAAGCAACGCGCATTTGCT
 CGGCGCGCGCGGCTACCTCGCGCATTTGTCATATGACATCGGATTCGAGGCGCGCC
 ACTAGCTTGGCGCGAATTCGCGCATTTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CGCTTGTCTTTCGACTTTCGCGCGCGCGCGCGCTGATGCCCTCTGAATAACGAGCGCT
 CCAAGTCGCGCGTGTGACCAATACGCGCTTCTTTCGCGCGCTGACATTCGCGCAT

-445-

TTTTGTTCGCAATATTTGTCGCGGACGGAACATGTTTTTTTCGGCAAGATGTATT
 TGGTGGAGTCACCAATTCGGGCTGTGGTGGCGGACGCGCATCAACGCGCGCTGGT
 TGTGACGCCACATGCAATGATTTGGCAATCCACACTTCAGCTTGTGGTGGTGGCGGT
 TGACGACGTAGCGCGCTGGCGAGCGCTTTTCTCTCGTGGCATATCGGCTTGGT
 CAACGACACCGCTTTCGCATTGGCAATAATGCTGCAATCGGGTTGTGGCGGCTGGT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CGGGGCGGTGGTAAATGCTTCAGCAATTTCGGTAAATCGCTTCCAAAGCTTTGTTC
 TGCTGTTTGAAATCGGCGGACGCGGCTTACACGCGGCTTTTGGCGATCGATTGGCT
 CGATGGTTTGTAACTTGTTCGGGCGAGTTCGACGTTTCAAGTGTGGAGCAAGTGT
 CGCGCTAATTCGAGTTTAAAGATAATCATCGGATTTGCGTTTTCGATCAATCGCC
 CGGAACCGACGCGCGCTCGTGATGACTTGTGGTGGCAAGGAGGTGGTGGCAAGTGG
 CGGCTCCAGTTTTCGCGCGCGCTTTCGGTAAATCGATGCTTTTCAAGCGCTGGTAA
 CAATCGCAAAATCAGCTTTTTCAGTCTGGTTCATGATTCGATTCGATTCAGTCTAGT
 AAGGGGACGGGCGCACTGTTTTCATCGCGCGGTTTTCGCGCGGCTCGCAAGCGCTAG
 CCGAACCTCATGGCTGATGACTGTAAGCGTTTAAAGTTTAAAGCGCTCAATCATCT
 CGCGATGCTGGTATGCGACATGCCCATGTCAGCTTTCGCGTGGATAGGGAGCAAT
 TGGAGAGCAATAATTTGGGTTTGGAGCGCTTTGGGAGCTTGGAAATCGGGCGGT
 CGGCTCATTTTTCGCGCGAGCTCAATGGCGCGCGCGCGGTATTTGTGCTGATGAT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CATTGCAAAATCTATGCGCGCGGCTATGCGCAAGATGCTTAATCTGACGCGCATATT
 CGGATCGCGTACATGACCGCGGTTTATGATCCGACGTTTATTGCTAATAATTAC
 CCAAAATAAATAAATTTAAACTCTCTGATGGCGCTTCGAGCAAAAGGACAGTCT
 CGCATTCGGTAAAGGCGATTTGCAATGAAATCAKCAATCTCAACCGGAGCTGGT
 GCGATATGCGCGCGCGGTCTGTGCTGTCGCGCAACAAAGCAAGCTGTTGGTGCAG
 GTCCAGCAATCTGATCGGCTTTTCAAAACCTATTTGCTGGTGGTGGTGGTGGTGGT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CATTGCAAAATCTATGCGCGCGGCTATGCGCAAGATGCTTAATCTGACGCGCATATT
 GTATGCTGTCTCACTTCGATCCCGCGGTAGGTATGCATCGACTGAAATCACTTCGGG
 GTAGAGAGTCTGATCTGCAATCAAAAGTATTTCGATAAAGCAAAATTTGCGCGT
 AGCTTCTACTGGAAGCGATCTATCTCGAAGATCGCGCTTCGCGCGCGGACGCAAA
 CGCGGCGCGCAAGCTCATTCGCGAAATTCGTCGCGCAACCGAAGCTATCGGCAAT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 CCGCTATACACAGCGGCGAGTTCGGTGGCGCATTTCAAAAGAAANAAGTCT
 CCGTTCGTATCACTCAAAAGCGAATCTGTGTTGCTGAGACGCTCAGTGGCACCGCT
 CTCATCTGATCTGACCGCACCGGAGGGGCTTGGGGTGGCTGAAGATGATCAGCAAG
 CCGCGATTCGCGGCGAATCTATGTTCTCAAGCAGCGGAGAACAAAGTCCCTTTTTC
 CACCGCTTTTGGATAGATAGCTCGGGAAGCGGAGCAAGCACTCGCTCCGCTCGCT
 TGGTGGAGAGATGTGACCAAGCTGCTGATCAAGTCAAGTACGCTGGTGTGCAAAAT
 TCTGTTTCTATCTGCGCGGCTGCTGCAAGCGGCTGCTCCGCGCTATGCTCGCTGAA
 CCGTGGCAGATTCGCGCAAGCTCTGAACAGGATTTGCTCGCGCTTCAACGGAACAC
 AACCTCTTTGGGAGAGCTATGCGCAAAACCGATCTTCTCGCGCAACTGAGCT
 TGTGGCATCTAACGCGCGGTTTGGCGCGCGGAGAACAAAGTCCCTTTTTCGTTT
 GAAOCCGCTGGCTTCTGTCGATCTTCATCCACCTGAGCAGTTTTCGAAAGTCCGAT
 ATGGTGGCTGTGAAGCGCAACACAGCTGCTGACGAGCTGGTGGTGGTGGTGGTGGT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TCAACGCTTTTCAACACGCTCTTCTACGCGAGCTGAGCAAGAGCTATTCATCTTTAT
 CGCGCGCGGATTTGACGAGCAGCAGRAAAATGGATTAAGAACTTATTCGATCGCT
 TGTGCGGATCTGCGACCGCTGATGCTCGAAGCTTCCCAACCTTTCGCGCGCGCTG
 TACAAATCTGCTCAATCTCGCGTGGATCTGAGCGCAGCAAGCGCTTGGAGGCTCTGT
 GGGATGAGGCTTTGCGAGCACCGCACTCTCGCGCGCTTCCCTCGCTCGCGCGGAA
 TGTGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 GACTTGGCTTTGAGAGGAAGACGCTCAAACTCTCGCGCGCTTCAAAAGAGTTTGT
 CAGTCGCGCGGATTTGACGAGCAGCAGRAAAATGGATTAAGAACTTATTCGATCGCT
 TGTGCGGATCTGCGACCGCTGATGCTCGAAGCTTCCCAACCTTTCGCGCGCGCTG
 ATGCGCGGTCAACCTGTGCTGCGCTCAACGCGTCCCGGCACTAGTCAACGCGCGATTG
 AATTTTTCACACAGCGCGGCGGAGCTGAAGCGCTTGGCAAGCTCGCTGATCTTTC
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TGTGAAATGTTGCGGAAGCGCGCGCGCGCGCTTGGTGGTGGTGGTGGTGGTGGTGGT
 TACCGACCTGGCAGCGCTTGCAGCTCTGCGCGGCTTGTGAGGCGGCGCTATCGCGG
 ACAAAGTAACCTGCTGCTGACGATGTTGGCGGCTTTGAGAGGACCAACAGTCAAGT
 TGGGCAAGCGCTCGAAGAGCGCGGCGCGCATCTGTACGCGCTTGTGGTCAACAAAT
 TGTCCAGCCGAAATGGCATGTGTTATCGCTGAGAGCGGAGCGTGCTCAAACTGGAG
 CACTTCGGGAGCGCACTCAACAGCAAGCACTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TGTGGCGAAGCGCGGCGCGCTGCAAACTTCAACAACTGTACCTTCTGCAAAAGT
 GTTATCGACGCGCATGAGCAAGACCGAACCGAAGCGGCAACCGGCGCGCGGATTT
 ACCCGCAAGTGAATTCGCTATGAAACAGCGCTATGAGAGCGCTGATGGGCAAGCT
 CCGGAGGCGGTACAAATCGATTGTATGTGCGCGGTATGCGCACTTGGCGCGCGGAT
 AAGGCGGCTTTCGAAAATCTGCGCGCTCTGCTGCTGCGACAGCGCTGGAAGCTGCT
 TGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 ATGGCGCGCACTTTTCGCGCGCTCGAAGCGCGCGCGCTTACGCGCGCGCTGCGG
 ABAAGGCGGCTTATCATGAAGGCTCATGTCGATCTGGAGCGCTACGCCCGCGCTG

Appendix A

-446-

CTGATGCGAGCCGACGCGGGCTATATCGCGCGCGACCTGCGGAGGGCGAATCGAAGCC
 GACCTGCAAAACGATTTGTGGACACTGCTCGGAGGCTGACCGCACC GCCC CAATCAAAA
 ACCATCGCGCTGTAACACTTTCCGTTTCAGACGGCATGGTTTACGCAATCTAAACAGG
 GCGGACCGGAGTCAAAAACACACTTCCGCTTCTCTGCACAGCACTTCCCTATACGCT
 CCGAACCACGCGCGCGCATTCGACAGCGCATTATAGTGATTAAATTTAGGGGCTGT
 ACTAGATTAGCAGATATGTTACCTTCGAAATATGAAGATAAGCACTCGAATTAAGAAGA
 AAGAGTACGAAGAAGCTTCGCGGTTTGTGTGTGAGAGTTACGCGCGGTGTGCGCGC
 GATATTTGGATTTGATTTCCCAATTCGCGAGCATCTGTTACGTTAAATTCGACGGT
 ATCAACACTCATTAGCTTTGGCTCGCGTAGAGGTTTGTAGGGCCCTGTGAGCGCGAC
 GAAAGCGATTTCCGCGGACGCGGCTAAAGGCAGACGTGTGCGGCTGCGGACGAAAGTG
 GTTGCTCTTCGCGCATTCGAAACGCAACGGCGGGGCTACCGTTGTGCTAGTAATGCC
 AAGCTCGAAAGCTTACTCCTGTATCAAGAAGAAATCATCGCGACGACATTGTTTAT
 ACCGATAGCTGAGCAGCTGGCAGAGTTGGACGTGAGCGGTTTATTCATTCAGGCAT
 AACATTCCAGAGTTTTCGAGACCGT CAGAACGCTATACGCGCATTCGAGATTTTGTG
 ATACGGAABAACGGCTTCGAAATTTATAGTGATTAACAAAATCAGGACAGGG
 ACGAAGCGCAGACAGTACAATAGTACGAACCGATTCACTTGGTGCTTCAGCACTTA
 GAGAATCGTTCTCTTGAGCTAAGGCGRGGCAACGGCGTACTGGTTTGTTCATCCACT
 ATACCTTTCCGACAGCGCAACAAACCCGGAATCGCTCTGCACGGTTGGGGTATATCTC
 CAATACGGGCATCGTGTTCGGAAACCGTCAATCCGCATCGGCATCAATATATTTG
 AAATTCGGATTGTTCCGACCGGTAAACAGCTGAGCGGCTGGCATCGCGGCAAGC
 TGCATATCGTGGGATGGATTTGCGACACGCTGCATCAGATAGCGGATTTGAACAGC
 ACTTGAGTTTGCGCCCTGATAGGCGATTCGATTTAGCGGCTTCTGCTCGCTG
 TTGTTGCTGCACACACGCTCAACAGGCGGGTGTGAAACAAATCGCGCACCGCGAAT
 TTTTCTTTGGCAAGATCGATGACGCTTCCAACGGCCCAACAAATTCGCCCTCGACAC
 ACGAAATCTTGTGTTGCCAAGGAATCAGCGGTTGAAATCGGGGATTTGCCGTG
 ATGACCTTCTGCAGATGGTGTGCGGTTGCATTGGAACGCACTGTTGTTCCAGCAGC
 TCGATTGTAATCGGATCGCGGGTGTTCACAGTTTGAACAGTTCAGCACCGCTTTG
 CGCGCAAAATCGTTCGGCGCGGCAATCGCATCATCGGCAAGTTCGATAGCGGCTG
 AGCGGCTGTCCAGCGCAACACTGCTGCTCACTCATCATCAGAGAA
 CGGTTGAGATATAGCGGATCTCTGCACCGCATGCTACTGCACTTCGACAGCATG
 GTTTTGAACGCTCTGCTCCAGCGAAGAGTGGCGGTGATGCTCTCGGCAATTCACT
 ATCGAAATCGGCGCGGACGCGGCTCTCAGGCGCAAAACGCGATTTCGCCGCCCTCAGC
 GTCAGACGGCTGTGTCCTCAATCCAGCGACACCGCGACCGGACGCGCGCGCAAA
 ATATCTCGAAATTTCTGGCATTTGTTGATGCTGCGGAGTGGCCGCGCGCTCCGGGA
 CGCGAGTGTGATTTGGAATTTCCAAATCGGTGCCAAGGTTTGGTGTGACCGGCTTTT
 CCTCAATCAGACGTTTGGACGATTCGCGGGGTGTCGCGGCTTCGACGATTCGAGTA
 AGCGCTCAGCGCTCAAGTATGTCAGTTCTGCTGCGGCTCATCAATCATGATTTGCGT
 CCTTTAAATCGGTTTATAGTGGATTTAAATTTAAATCAGGCAAGCGACGGAAGCGCA
 GACGGTACAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAAATCGTCT
 TCTTTGAGCTAAGCGAGGCAACCGGCTACTGGTTTAAAGTTAATCGCTATATCTTTAC
 CTTTGGAGGCAATGCGCAATATCATGTCGCTCGAAACGTTTTCATCAGTTTGAATC
 AGAATCAGCAGCTTTTCAATCTGTAGCGCAATTCGGATCTTCTTCGCGAGTTTTCGCC
 ACTGCCCTGATCGCGTGCATACGCTGTATGTTGCGCGCAACAAAGCATTCGCGAT
 GCGCGAGGCTCAAGTATGTCAGTTTCTGTCAGGCTCATCGGCACTTCGCGCGGCG
 GCAATGTTTCTGTGTCGTTTCTTACCGAGCACATCGCTGATTTTGATCGGCTAATATTCT
 GCCACCGCATGATGATGTCGCGGCGGTGATGACTTTGTGCTTCGCGCAATATGTC
 TGCAAGCGGTACGCGCAATCATGTCGATGACGCGGACGTTTCATAAGCGGCTGCTC
 GCTCCGACAGTTTAAACGCGCTTCAAGCTCGCGCATGTTGMAACGGATCAGATTGGCA
 ATGACAGCGCGGCTTCTGTTTGCATCATGTCGCGCGGCTTCGCGCTTTTCTGCAAAA
 ATGCGGATCGGCATTTCCAATTCGCGGCTCGAGTTCAACATCAGTCCCATCAAAA
 CGCGATTTGAGGCTGATCATCTGCTGCTTCTGCGGACAGCTCATGAGTATGAGT
 ATGAGCTGTTTCTTCTGTTGGAAATGTTTGTACAGATAGAAAATCTTCCATGTA
 CGGCTTTGCTTTGATGAACGGAATGCTGTCATATCAGCAGGCTGATTTGCTTGTAT
 TGTGCTTGAACAGCTGTAAGTGTGTTGCGAAGCGCTTCATAAAGCTGCGGATATAG
 TCATCGAATGCATATAGCGCACTTTGGCATCGGACGGTTTTCAGCAGCTCGTTGCGG
 ACCGCTCGACAAGGTGGTTTTCGCCAACCGCTGCTGCCATAGAGGAAGACGGGTTG
 TAACTCTGCGCGGCTTTCCGCAATGCTTCGCGCGAGCGCGCGGAGGCGTTTCGCC
 TACTCTTACAGCATATGACGAGCAACTGTTGTTGCTGACACCGCATACGCGATGCG
 TCTGCGCGGCTGATGCTGACGCTGCTGCTGCTGCTTTCGCACTTCGCGATTTTCGCC
 CGGAGAGCAGACGCGGACGCTGACGCGGCTGTCGCGGAGGTTTTTATAGCTTCGCC
 AAATATTCGCGCGGCTTTTCGACGACGCGGTTTGAAGGCTTTCAGCGGACGCTG
 TCCAACAGAACTCTGACAGGGCATTCCTCGGACACCGCATGCAAGGACGCTCGGCA
 GGTTCGACAGCACTTCAACCGCGCATCTCATACCGCACTTCCTCCGTTTGAAT
 ACGAAGCGGAAGCGCGGCAAGCTTCTTCCTCAGCGCTTCTATTTTCGCGCAAC
 TGACTTTCAGCATATGACGAGCAACTGTTGCTGCTGACACCGCATACGCGACCTC
 TCTGCGCAAGCTGATGCTGATGCGCAACTGCTGCTGAGCGAGCATG
 TGAAGCAGCGCGAGCGACAGCGGCAAACTCTGCTATGCTGATGATAGGCTCGAATCG
 GTAAATATGAATCGAAACAAAGAAATATAATTTTCAAAAAGAAACAAATCTGTT
 GAACGCACATCGGTTCAAAAGCACTGCCGATTATACGCACTCAGAAATTTTATCC
 ACAACCGGTCAAAATTTATCCAGAGAAGGCGCGGAAATCCGAGGCAATCGGCA
 TTTCTCTCGAAAGTTCTATATTGATGCAAAAGCGCAATTTGGAGTGTATTCAGG
 TTAAATATCAGCATCTTATTTTAGGAAGATCATGAGAGCATATACGCTTCGTT
 TTACAAACGATGACGACGCTTCTGCTGCTGAGCACTGCTGCTGAGCGAGCATG
 CAGTATTCGCGCAGCGCTGCCAAGCGCGCAACGCTCTGCGGATATATTTGACATA
 CGCTTCGAGGCGAGTACGCTTGTGAAACGAGTATTGATTCGCTTTTGCATT

Appendix A

-447-

CAGAAACCGCGCGAGCGCGGACTGCTGCAAGTTTCGGCTCAACGGCAACGGCGTGGG
 CCATCCCGCGATCGGTCTGGTGTCCGCAAAAAACGCCAAACCGCGGACGACGAAAGAA
 TTATATGAAGCGCGTTATCCGCGACTGTTTGATTGACAAAAACCGCTCGCGCGGCA
 GGATTTCTGCTGCGCGTCCACGTAATTCGACAGCGGTACCGCAAAACAGCGAAGGCG
 GGAATCGGCAACAATCATGTTTCGGCAACCCCGCAACCGGATGCAAGAAACAGGATGATC
 AGACGCGTCTCTTCAGGCGAAGGTTTCAGACGGCAACCGGTTTCCCATCAAGGAATCATCC
 CGATGAATCTCTTATGCTGAAGTCTTCGGGTCGATACGGTTTACCAATATGAC
 TCAGCCCGCTATATCCGCGCGTCCGTTATACCGCGGATCGCGGATGATACGGCGTACG
 AAGCGGTCAAAAATACGGCGCAATCAAGGCGCGCGGCTCGCACTCAAGCGCATTTGCAC
 GCTGCCACCTTTTCGGCGGCAACGGGACGACCGCCGTTCCCTGACCGCGCAATATTC
 AATTGCACGCTTTCTCTTTATTTCCCATCGGTTTCTATATGACGCGCTGGAAGCTTCGG
 CGAGCGGGACGACCGCGGGGTATGAAGCCCGCCTTATTCGCCGCTATCGGAACACCG
 AACCTCGCGGCAATTCGACCATTCAGGAATCTTATGGATTATTAAGATCTACCGCGGT
 TTTTGGCATTCGCGCTGGGTATATGATCGGCTGGGAAAGATGTTCCCCCATCTCGAAGC
 CGCTCCCGCGGCGCAACGGCGATACCGTACGACCGACAGGTTCAAGCGCTCATTTGATG
 AAAAAAGCGGGGCACTGCGCGGCTGACCTGCTCAATACAAGCAACCGCGGACGAGAA
 ATAAACCGTTTCATCTGTTTGGGACGGGCAAGATACACCTACGTCGCCCAATCGGAAC
 TTTTGGACGCGAGGCAACCAATTTCAAAAGGCACTCGGCTTTAGCGCAACGAAACAAAC
 AGTACAGCTTGAAGCGGCAAAATTTGAAGTTCGCGTGAAGCGCGGCTGAACACCGCGCTC
 TGAANAATCGACAAGATTTATACTTTACGAAGGACGACTGATGGTCAAGCTCGCGTTG
 AATCGCCACGCGAGCGGTCAACCGGCACTGAGCGGGGATACCGCATCTGCGTCCGCG
 ACCACAGGAACCTCGAGGCTCAAGGTTACTTTACCGACTTTACGTCGGCGCTGTTGTTT
 ATACCCCTGAAGGCAACTTCCAAAAAGTCAGCTTTTCGCGATTGGACGATGATGCCAAT
 CCGGCAATCCGAGGCGGAATACATCCGCCAAAAACCGCGCGGCTGGCTCGGATGATTG
 AACACCACTTCATGTCCACTGGAATTCACAACTTAAAGCAGACAAAGGTTTTCGCGCG
 CAGCGGATGCAACATCGCATCAACGCGCGCAACGCAAGCTGTACAGCACCAAGCGTCA
 CGTGCTCTTATGCGGCACTCCAAAGCGGCGAAGCGGAAGCGGAGCTCCATCAACCTTACG
 CGCGCGCGGACGACATCCGCTCATGCGCAACCTGCGGCAACCTGACATGCGGCAAGC
 ACTTCGCGCAAGCTGCGGCTGCGCGCTGCGCTGCGGCTGCGGCTGCGGCTGCGGCTGCG
 ACATCATTCGCGCACTGCGGCTGGGCGATATCTGTTTAAACATCATCTGCAAGCGCTAC
 GTATCCATTTGACCAACCGCTTCTACCGCTCTATGGCGAAATGCTGCCGCCGACCCA
 AACTCGAAGCATCAAGAGAAATACGGGACGACCGTATGGCGCAACAGGCGATGA
 TCGAGCTTTACACAGACGAGAAATCAACCGGCTGGCGCGCTGCTGCTGCTATGCTGTTGC
 AATCCCGGCTCTCATGCGATTTGATTTGGGCAATGTCGCGCTCGGTAGATTTGGCGAGG
 CACTTTGGCTGGGTGGATTAACGACCTGACGCGGCGGCGCTATCATCTGCTGCGCA
 TCATATATGGCGGCGAGATCTGCGCAACTTTTACGCGCGGCTGCGGCGGCGGCGGCGG
 TCGAGGGAJAJATGAJAATCATCGCTGTTGTTTCTCGCTCATGTTTCTCTCTTCG
 CTGCGGCTCTGGTATTGATCGGCTAGTCAACACCTCTGACCATCGCCGAGCAATGGC
 ACATCAACCGGACGATCGAAAAACAGCGCGCCAGGCGAAGTGGTTCTTAATGCGCG
 AGCATGAAAAATGCCCTGTGAACCTGTTTCAGACGGCATTTTATGGCCACCCCTATC
 GGGCGGAAATCTTCAACCGGATACATCAACAAAAATCGTCGGCGGCTTTTTCAGATTGG
 GCATTTCTTTCTTTTTCGCGCATGACGATTTGTTGATGATGATTTCTCTGTGCGGCA
 AGCTAATCTGCTAGCGTGCATTAACGCTTTTCAGGATGAGGTTTTCACCGCATGCG
 CAAGAGCGCATCATTTGGGTAAAGGCTTCAATAAATCTGCGCTCGCGCGCATCGCG
 CGCAACGCTGTTCCAAAGCGGAAAGCTGATTCGCGCTGTTTTCGACGCGGAGAT
 AGCCTTTAAACGCAAACTCTGCGCGTTCGCAACCGAAGCATCAAGCGACGACGCG
 TGGAGGCGCGGACGCGGCGACCTTCAAAACGCTGTTTATGCGCATGCGCAATAT
 TCGCACCGGATCGGCAACGCGGCAACCGGCTCACTGCAATGCCATCTGCGGCC
 CTTCTTGCAGAGGTTTCAGCAATTCGCGCAAGTCTTCAATCGATGATTTCTCATCAAGG
 TTTTCGAGTTATCTGCGCGGATGAGCGGATGCTGCGCAATCTCAATGCGGATGCGG
 CGCTTTTTCGCTCTGCGCACAJAATCTCGTCAGCGCGACATTCGCTTTTTCATCGG
 CGACAGGCAACGCGCTGTCAGGCTACCCAAAGCGGTAGGAATCAAAACAGGAG
 ACATCATTCCTCACTCATGCTTTAAAAATCGCGCTCTGAGCTTTCAAGCGCATAAAG
 GGCAGTTACAGAACTCCACGCCCTCATTTTCAAGAAATCGACAGCGGAAACCGCG
 AAACCGATTAAGCATTCGGATCGTACTCTCAATCTTTCAATCAAGATGCAACCAAA
 TCTCATCTTCTCAGCGCAACGACCAATAAACCGGATCAGGCTCGCGCTCAAAATAGCGG
 AGGATATGCACTGTCCACTGCGCTCATACGACGACGCTTATATGATGATCGATCGCGCG
 ATCTCGCGCTGATGACGACGACGCGGCTTGAAGGCAATGCGGCTGCAATTCGCGG
 CTCAGTGATCATGACGACTTTTCGCGCATGGCAAGGTTTCATCGGCTTGCGCCATGCTG
 CGTGCACCGACGCGACCTGCTGCGACGACCAATCAACGCTTGGGAACGCGCGGCTC
 AACGACCGCGGCTTACCTCGGCAAGGCGGAATGCCCTTGAAGGCGGATTCGCCCAAC
 ATCGCGTTCGCTCAAAATCGGGGACGCGGCTGAAGGAACATGCCGAGCTTTCATC
 TGTCTCGCGGGAJAJAGGCTGATGCTGACCAAAATCAAGGCGATTTCAAACTGATCCCA
 TCTCTCTTACGCTTTGAACACGCGCGAAGGGGAGTAAATCAAGCATGCGCGGAAAC
 ACAGATACCGCGGCGGCTACCGGACATCTGCTTAAATATGAGTTGAGTTGAGGAT
 TAAATATATATATATCTGCTTTATGTCAGACCTCAATTTGATTCATCTGGAATTTTTC
 CGCGGGAAGGCGCAAGCTGCAAGGCGATTTCTGCTGGAAGATTTGATGACGCGTCA
 GTTCGACGATTTATCGCGCGGACGCGGCAACAAATATCGTTTACACTGACCGCGGCTC
 GCGACCGGCTGCAAGCGCTGTTCTGCTGACCTGAACCTCAAGCGGATATGCGCTGATT
 GCGAGGATGATCAACCACTGCGCTTCACTGTTGATGAAGGACGCGGATGCTGCTGTT
 TTTTCAAGAGAGGCTTTGACGATATCACTGTTGCGCGAGAGGCTGAGGCGATAC
 TGAATGAJAJAGGCTGCTGCTGCTGCTGCTTAAATATGAGTTGAGTTGAGGAT
 CTTTTCGCGCGGCAACGACGCTCGCGGCAATGGGACATGGAAGGATCAATCGG
 ACAACCAACACCCCTTGTCTTTTTCGCGAGTTTGAJAJAGCAATGATTAGGACACATT

Appendix A

-448-

TATTTATCTAGAGCTTGAATGGCGTTCAACAAACAAAAATCCCTTCCAAAGCGG
 GTATGCACCGTTGCGACGACGGCTGACCGGCGCTGCATCTGCTGCGACGACGACACCG
 GCGAAGTACACCGCGCGCACCATCTCCCGCAAGGTATGTACCGCGCGCGCAAGTGG
 TCAAAGCGCAAGCGGAATATCCCTATTGCGACTGACTGAAAAGCGCAGACATTCGCATG
 CAATTATCGGCTTTTTTGTGATTGGACGACCACTCCGTTCCAAACTTTTGGCCATAGCTCAA
 CACACGAGGGGCAAGCGTTCGCTATATAATCCCGTGAAATATTCCAAAAGCCCCAAGCA
 CCAAGAAATTCGATGAAGAACCAAAATCGGTACACCTAGCATGACATCCACCGCGCTCA
 TCAAGCAATTGGCAAAATCGAGCGCGACATGATACGATCGATGTGCTGCTGCTGCGG
 TCGCGCGCGCGGCTTTATTCGCGCGCATGTCTGCGCTGTTTTCGGAATTCGGATT
 ATGCGGTACACACCGCTATTACGACGACGACACGAGGACAGTTACGAGAGAAGTCA
 AAAAAGTCCAATGGCTGCACCGCTTCCCGAAGCGCTCGGGGCAAAAGACTCTCGTGC
 TCGATTGAAGTGGACGACGCGCGTAAACATGGAATTGCTGCTGAAAGAGTCTCAAGG
 AAGACTTCGCTACGATCGGAGTGGCGTACTGCGAAGAAAATCAAAGCGCAAGGACGCA
 AAACTCCCGAAGGATTCCTTATTTACCGGATCACGCTAGAGAGCTGTGGATCAAT
 ATCTCGTGGACGACATCGACATCGACGACACACCGCTGCGAGCGCGCGGAGGCT
 GACCTTTGACAGCGCATATTTTCGACCGATGGCTGCTGAGCGCGCGACGCGCTGCG
 CGGACCGCAAAACCTACCGGAGAACCTATGATTACATTGGCGGTAGTGCCATGGGCG
 GCGGACCAAGACTTGGCGTTACGCTACCGGCGGACGACCGATTCTTCAAGCAGACCGC
 GATGTCGCGCTGATTATGACCGCGGACGAAAGCGCACTGGCGCAAGCGCTGACCGCGCA
 GCGCGACCGATGGAACGATCGACATTCGCCATACCAACCGATGCTGGCATGAGACGAA
 GCGCGCAATTCGCGCTGAAAAACAAAAGACTCTCCATCGGCGTGGCATCAACGAG
 GTTAAAGAGCGCAAGCGGCAAGCGCTGATTCGCGAGGCAACAGCGGTGCGCTCATGGCA
 ACAGCGATTTGCTGCTCAAACTCTTCGCGGATCGACGCGCGCTGCGCGCAATTC
 TCTCTTCCGACCGACGACGCTACCTTGCATCTGACCTTGGCGGACGATCGGAGTGC
 ACCTCGGACGCTGCGCAATTTGGCGTTATCGGCGGACGATCTGTCGACGACTCTCAT
 CCTCAAAAGGACGACGCGCGCTGGCTGGTCACTGCGGACGGAAGACATCAAAGT
 ACGGACACCGTCAACAACTCAAACTGCTGCAAAACGACGAACTCACTTTATTCGCG
 AACATCGAAAGCAGCGCATCTCTACGCGGAGCGAGATGCTGCTGCGCGACGCGTTT
 GTGCGCAACGCTCATGCTCAAAACATTCGAGGCGCGCTCAAAATCATGAGCGGAGCAT
 CGCGCGATTTCTCAAAAGCTTCCGAGCTTTCGCGGATCGACGCGCTGCGCGCAATTC
 CTCAAGCGCTGCAAAACCTTCGACCGCGCAATTCACGCGCGCATCTGCTCGCGG
 CTGCGCGGATCTGATTAAAGCGGACGCGGACAGACGAAACCGGTTTTCGCTATGCG
 CTCGAAGAAGCTTACGCAAGCGCACTCGCGCGCTTCCAAATCGAACAGGCGGTGA
 GCGGAAACATCGCGCGCATCGAACTGCCAAGCGCTCCAAACGAAATTCGCGCGGT
 CTGTAAACACACGATGCGCTTGAACGCGCGCGCTTTCAGACGCGCATCGCGCGCA
 CCAAACTCGCGCGCGCGCGCGCGCTGCTGCGGACATTCUCAAATATTCGCTTGT
 AAAATAGGATTAAGAAATGAGGATTAAGAAAGGATTAAGAGCTTCAAACTTCAAACT
 CGGATTATGAGTTTGGAAAGCTTCACTTGAAGGAGGTTGATGCGCGCTGATGATTC
 CGATTGGATTATATTCATTATTGGAAGCTTTTGGCGTTTGAAATCTGTGTACTTAT
 ATCGAAGATTTCGATGTCGCGCTGACGGAACAGAAATCCGCGGAAATTTCTTTATCAAC
 AAGGAATTGAGATAGAAAGCAGCTCCGATTAAACAAATGAAGCCAATGGTTGATTAACA
 TGAAAACATCGACGGTCTTTTGGCGGATTTTTATGGCAGACAAAGGAGAGAAATCC
 AAATCCCGCTTTTGAAGAAATCTGACATTAAGGAAATCACTACTTTTTTCCGATCAA
 ATTTGAGAAAGAAACCGCGCTCTGTTTTCGAGATATCCCGAGCGGATTTGGA
 ATACCGAATTAACTGCTATTTTAAAGAGGATATTATAGTGCATCAACAAACGACGA
 CGCGCTTGCCTCGCTTGCCTACTGGTTTTTGTATCCACTATATCAGACGAAACGAA
 ACACCGCGGCAATAGCTGACGCGCAACCGGCAATCAAAATGCGCTTGAAGCAGCTG
 GCGTTTCAAGCGGATTTCTTCTGTTAAACAGCGTATCGGCAACCGCGCTGCGCTGT
 CACGCGCAATTCGATCTGAAACCATCTGTATCCAAACACACCGCCATCTCTGTTT
 CATCATGTGCGACCTGTGCGATTGGGCAATCATCTGTTTTTGGCTTGAATAGCGCAAT
 GTAGGCAACGCTCTCAAAAGCGCGTCCGATCGAGTATGCAAAATTTCCGCGACGCG
 AGCTATCTTCCGCGACGCGGCTGACGAGCTTCCGCAAAAGGATGATGCTTAAAGCG
 TCGAGTGGATTACGCGCGCACGCGCATCAAACTCGGCATATTGACGCGGAAACGAA
 AAAACCGAGATCTTCCGCGGAGCGGCGCACCGCGCTGGATGAGCGCGGATTAGAC
 AGCGCGCAAAATCGATTGATTATCTGCGCAACGCGCAACCGCGATGTCAGTTTCCGCT
 ACTGCGACCATCTGCAACAAAAATTTGGCATCCACACGCGTTCGCGCGGTTTGAACGA
 CAGCGGCTGTGCGCGGCTTTGATGACGCGCTGACCGCGCAACCGCTACATTAAGAG
 GGTATGGGCAAAAAGCGCTGTGTCGCGCGGAAACCTCACCGCGCATGTAGACTGG
 AAGCGCGCAACGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TCGGACGCGCGCGGACATCAACGAACTCAAGCGCGACGCGCAATTTATCGAACTC
 TTAAGCTCCCGGCGCAATGCGCTCGGCGAAGTTTCCGTTGCGCGTACATTCGATG
 GACGCTCCCGCGCTGTTCAAGTTTTCGCTCAAAATGCTGCCAAATCGCGGATGACGTT
 ATCGAAGAAGCAGGTTACACGCGCGCTCAATCGACTGATTGTTCCCATCAGCGCAAC
 CGCGCATTTATCGATCGACCGCAAACTTTAGGTTTGAATAGGACAAAGTGTGCTG
 ACCGTCAACACCAACGCAACACATCCGCGCATCATCTGCGCTGGCTTGGATAGCGGCG
 ATCCGACGCGGACATCAACGCGGCTCAAACTGCTGATGATGATGATGATGATGATGATG
 TTTGCTGGGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 AGACGCGATTTCCTATCATGAGCGCGAGGCTTTCTTCAAACTGATGCGCTGCGCGG
 ATTTCTGCTGCGGTTTTCGCTGCGGCTCCCGGATTTGGCGCGGTTGACGCAATTTGCT
 CCTCTATGCGTTTGCATTTTACGCGATCGCAACCGTGGCGCATACGCGGCGACGCGG
 CATCTCCCGAACACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGGACGATGACATTCACATTAAGAGCGGAAAGCGGTTTGTGCTGCTGCTGCTGCTGCT
 TACGTTTCAAGTATGCTTGGGACCTCATCATGATGATGATGATGATGATGATGATGATG
 CAGTACGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GTCTGATTTTTGTAAATCCATATATATTTGCTCCCGCTGATTTTTCGTAAACTC

Appendix A

-449-

GGGCAGAACTACGTGATTATCAACCAACAAAGGAATACTATGTCTTTGCTTCCTTTT
 TCCCGGACAAGGTTCCCAAGCCCTCGGTATGATGAACGGCTTTGCGGAACACGCCATCGT
 CAARAACACCTTTGCGGAAGCCCTCGGCATATTGGGCGAGGACTTGGGCGATGATAAA
 CGGCAGCGATCGCGAAATCATCGGTCAAAACCGTCAACACCCAGCCCATATATGCTCGCGC
 CGCGCTTGCGCTTTACCGCGCTTATTTAGAGCGGGCGGCAAAACGCTGCGCGCTTGC
 CGGACACAGCCTCGGGAATACACCGCATCGTTGCGCGCGGCGCATGAAATTTGCGGA
 CGCGGTCAAACTCGTGCCTCGCGCGGCAATGATGACGTCGAGTCGCGGCTACCGCAAGGCT
 GGGGGAATGGGGAATATCTCGCTTTGGAGAAAGACAGTGTAAAGCATTTGTGCGGGA
 AGCCGCCCAAGCGGAATGGTGAACCGCTCAACTCAACTCACCCGGACAATYCTGAT
 TGCAGCAACGCGCGCGCGCTGCGGACGCGCATGGTTCGCGGCAAGAGCGGTGCCAA
 ACGCGCCCTGCGCGCTCGCCGTCTCGTACCTTCCCATTTGAGCTGATGAAACCCGCGCG
 CGACAACCTTCGCGAAGCCTGAAAACCGTTGAAATCAAGCAGCGCAATTCGCGTTAT
 CCACACACGCGACGATTCGCGGCTACGATGATGCCGACAAAATCAAGACGCGGCTCGTCCG
 CGCGGTTACAGGCGCGGTACGCTGGAAGAAACCGTCAACGCCCTCGTTTACAGCGCAT
 TCCGGAATCCCGGAGTGGCGCGCGGCAAGCTTTGGTGGGGTTGGCAAAACGCTATAA
 CAAGCGCGCGCTGCAAGCGCATGACGATGCCGCGAGGTTGCGCGCTTATCGAAGC
 GCATGACTTGTCTTGCRAAAAGCAGCTGCGCTCTTCAGGCTGCTTTTCACTGTCGAA
 CGACGGCAGCCCATATTACGCTATAATCCATCCGACCAACCCAGCAGCGCGCTGC
 CGTTGCACTTCGCGCCTACCGATATGATAGAAAACTGACTTTCGCACTGTTTAAAAAA
 GAAGAAGCGCGCGACTTTATCGCGCTGATGGCGCTACGTCGCCCCCTACAAAATCGGCATC
 GTTGGCGCGTATGTCGATTTGGGCTTGGCGCACGAAGAGTACCTTGGCGCTTC
 ATCGCCCGCTGATTAACACGCGCTTTGCGACCTTCGCGCGCGCGAGCTGCTGCG
 GCGCGCGGATCATTTCCACCTTCGAAACCTGCGCAACAGTTTACCTATATGGTTTGG
 GGGACGGAACCAAAATTCGAGCGCTCGCGCTCTCTCATCATCTTCTGCTGCTATCGT
 GGCATCTCGCGCTTTACAGCAGCTATCTGATGACTTGGGCTCTCGTATGACCATCAGC
 AAAATCCGCAAGATATGTTTGCRAAATGCTGACCTTTCTCGCGCTACCATCAGGA
 ACGCGCTCGCGCACCGTATGATGAATATGCTCAACCTGACCGAACAGTGGGTGACGAAC
 CGGACGAGCATTTTACCGCTCTCGCGCGGCAACAGATGATCTTACGCGGCTGACCAT
 GTCTCGCTTTTCTGACCTTACGAGCTAGCTAGCTCTGCTGCTGATGTTTCTCGCGCTG
 TCCGCTCTGCTGCTACTACTCGCGGACGCTGTGAACAGCTCATTTTCGACTGCGAANA
 AGCATAGCAGATGAACAACGTGATTCGCAAAACCATCAGGGAACCGCGCTGCAAG
 CTGTTCAACGGGCGCGCGCGGCAACCGGTTGACGCGGTCAAACCGACCATCTGCT
 CGCTCAGCAAAAATCAGCGAGCAACGGCGGCATTTCCCGCTTACGGAACCTGATC
 GCGCTGATGCGCTCGCGCTCGTCTTTCATCGCGCTTGGCAAGCGCAAAACGGCTAC
 ACCACCATCGCGGAATTTATGCGATTCATGCTGCGATGCTGCAAAATGACGCCCCATC
 AAAAGCTTTCGACATCAGCATTCCTATGAGAGATGTTCTTCGCGCGCGGCGGTGA
 TGTGATTTCTGACCTACTACTCGCGGACGCTGTGAACAGCTCATTTTCGACTGCGAANA
 AGCATAGCAGATGAACAACGTGATTCGCAAAACCATCAGGGAACCGCGCTGCAAG
 CTGTTCAACGGGCGCGCGCGGCAACCGGTTGACGCGGTCAAACCGACCATCTGCT
 CGCTCAGCAAAAATCAGCGAGCAACGGCGGCATTTCCCGCTTACGGAACCTGATC
 GCGCTGATGCGCTCGCGCTCGTCTTTCATCGCGCTTGGCAAGCGCAAAACGGCTAC
 ACCACCATCGCGGAATTTATGCGATTCATGCTGCGATGCTGCAAAATGACGCCCCATC
 AAAAGCTTTCGACATCAGCATTCCTATGAGAGATGTTCTTCGCGCGCGGCGGTGA
 TGTGATTTCTGACCTACTACTCGCGGACGCTGTGAACAGCTCATTTTCGACTGCGAANA
 GAAAGGCGCATGCTTCCGCAACGCTGATTCGAATCCGTTAGAGAGCATCAAGCC
 CTCGACAACTTCAACCTCGACATCAGCAAGGGGAACGCGCTGCGCTTGTGCGAGCTTGC
 GGCAGGCGCAATCCACCGCTGTAACCTGCTGCGCGCTTTGTCGAACCTGCTCGCGCG
 AACATCTGATATGAGGATATGACATCGCGACATCAAACTCGACTGCTGCTGCGCGCCAA
 TTCGCGCTGCTGCCCAAGACGATTTCTGTTGAGCAGACCGCTTTGAAAACGTCGGA
 TACAGCGCTTCGCAAGCGGGGCAAGCGGAGTCTGCTTCCGCTTCCAAACCGCAACCTG
 CAAGCGCTGATGACGCTCGCGCTGCGATGCGACGACGCAATGCGATGCAAGCGGGA
 NACTTATCCGCGGACAGGCGCAACGCGTGCATTTGCGCGCGCATTTTGAAGACGCG
 CGGTATATTTTGGCAGAGGCCAGCGCATATAGACAACGAATCGAAGCGCTCGCT
 CAACAGGCGCTCGAAGCGCTGATGAAAACCGCACCGGCATCATCTGCGCCACCGCGCTG
 ACCACCATCGAAGGGCGGACCGCATCATCTGATGGACGACGCGCAAAATCATCGAACA
 GGCACACGAAACAATGATGTGTCRAAAACGGTTACTACAGCATGTTACGCAATATCTCA
 ACAAAGATGCGCGCTCGCGAGGCAATAACAATGCGCTCGGAATGTTGACATCTG
 CGCGACCTTTCGACAGCAACATCTCGCGGACCGCTGATGATTTTCATCATCTGCA
 AAACGCTATATGACGCAACAATAATCTCATCTTGACTTGGTTCGCAATGTACCGAG
 CTATCGCGCGCGCGTGGCGAAGCCACGTTTACTGCGAGTGCATTTCTTGTGATATG
 CTTTGGACGAATCAAGCGCTTCAACCCCAAGGCGCATCATCTTCGCGCGCGCCCAAT
 TCGGTTTACGAATCGACTATCAAGCGGATACCGGTATTTTGTATTGGGCAATTCGCGTT
 TGGGCACTGTATTACGCGATCAGTTTATGGCGCACCATTTGGGCGGGAAGTGCAGACC
 GGCACACAGCGGAATTCGTTATGCGCAAGTTAAACCATAGACAGCGAGCTGACACGC
 GCGATTCAGGCTGGGCGCAACACATCTGACCTGTATGATGAGTGAAGTGCAGACGCAAGG
 TCGAATCGCGCTTTCGCAACGCTTTCGCAACGCTTTCGTTGATTTTGGCGCGCAACCGGGC
 TGGAGCATGCGCACTCATCGAAGAGCGCTGCCAAAATCCGCGAACAGTTCGCGAGC
 GACGAAGTATTTTAGTCTGTGCGCGCGCTGGACTTTCGCTAGCGGATACACGAGCTATTG
 CACCGCGCATCGCGCACTGACCTGCGGTGTTGCTGATCAGGCTTGTGCGCGCTG
 TCAAGAGCAAAATGTTGATGATGATGTTTTCGCGCAACTTGGGTCGAAGATGATACAC
 GTCGATGCGCAATGATGCAAGCAACTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
 CGCAAAATCATCGTGGCGAATTTATCGAAGTATTTGATGCGGAGAAAAAAATATAC
 AACGCAAAATGGTTGGCAACGAGCAGATTTACCTGAGTATCGAATTCGCAAGTGA
 AAAACCAAAAAGCCACGCCATCAATCGCACACACGTCGCGGCGCTGCTGAAAAC
 ATGAAGTCAAAATGCTTGAGCTTTTGGCGGATTTGTTTGAAGACGAATGACGGAATTG
 GGTGGCTTTGGGCTTGGCGCGCAAGATGGTGTACCGTATCGGCTTCGCGGCTCGCGGT
 TTTGGCTGCGTATTTTGGGCGGAGAAAAAGAAATGCTGACCTGCTTCTGACGGA
 CAGCAATTTTTCGAGGATGATGCGCAACTACCGGACGCTGCTGCTGCTGCTGCTGCTG
 GACTGACGAGCAGCATTCGCGGTGCTTCTGCGCGCTCAAACTGTGCGGTATATGCGG
 GACGCGCGCATACGATTACGTCATGCTGCTGCGCGCGGATTACACGAGCTATTATG

Appendix A

-450-

ACCGCGCATTGGCGGAAGTGGCGTATTCCTTTGTTGGGCAAGTGTCCAAACGGATCATC
 AACGAAGTCAAAAGGCATCAACGGCGTGGTTATGATGTGAGCGGCAACGGCTGGCCAC
 ATCGAGTGGGAATAAACAGCAAAACATGGCTGGCCGCTCGGGCGAGTCTTCGATTATCG
 GAAAAGAGAAAAAATATGAGCACACAGAAATTAAACGGCAAAATCGCTTTGGTAACAGG
 CGCATCGCGCGGTATTCGGTGCAGCAATTGCCGACACGCTGGCGGCGCGCGGTGCCAAAGT
 CATCGGTACGGCGACCATGTAGAGCGGTGGCGGCGCATAGCGACGGTTGGCGCAATG
 GGGCGGCGAAGCGCGGTATTAAATTCGCCGCGCACTGAAACCATCGAAGCGCTGATTTCG
 CGCATCTGAAAAGGCGTTCCGGCAAACTGATATTCTGGTAAACAAGCGCGGCTACACCGG
 CGCAACCTCTGATCGGTGACGAAGGTGGAAGAGAGTGGACGACGATCAAGAGTCAACT
 CAAATCCGCTGTTCGCCGCTTCAAAAGCTTTGGCGGATATGATGAACAACACTTCGCGG
 CGCGATCATCAACATCACATCCGCTGCTGGCGGTATGGGCAATGGCGGTCAACCAACCTA
 TGCCGCGGCAAAAGCAGGCTTAATCGGTTTCTCAAACTGACGGCGCGGAAGTCGGCAG
 CCGGGGCTATTACGTCACATCGCTCGCCCTCGCTTATCGATACCGACATGACACGCGC
 CCGCGGGAAGAACCGCCAAACCTTAACGCCCAAAACCGCTTGGGCGAGTTGGCGGA
 CGCGAAGCATCGCGGATGGCGGTTCTGTTCCCTGGTTCCGCAAGCAAAATACATCAC
 CGCGCAACGCTGCGCTGCAAGCGGTATGCTGAGCTTACAGACAGCTTTTCACAC
 CATCGCGCTGAAGCCTTTACAGACGGCATTTGCAATCTAGGCAAAATGACACACACG
 ACACCCCGCCCTGCCCATCGGCTCAGGCAACAGCTGAGACCTTTGCAAAATTCCTTTCC
 CTCGCGACAGCGGAACCCCAACACAGAGTTTACGTGTTTTCAGTCTTTTTCGCCCA
 ATACCGCTTAATCTACCCAAATACCCCTTAATCTCCCGGACACCTGATAATCAGGCG
 ATCCGGGTCACTTTAGGCGGCGAGCGGCGCATCTAGCTGTTGGCGGCTTCAAAAGG
 TTCAAACACATCGCTTACAGATGGCTTGGCGCATCACTTTATCATCGTCGGAATAGGCT
 CCGCGGGCTAGCGGAATTTATGCTCGAGCTACCGAGCTCTGTTGACACATAGT
 GGAATTACAAAGAACAGTACGCGGTGCTGCTGCTTACCTAGCTCAAGAGCAAGCTTCTAA
 GGTGCTGAAGCACCGAGTGAATCGGTTCCGTAATTTGTAATGTCTTGGCGTTCGTCGCG
 CTTGCTCGATTTTGTGTAATCGACTATACATCATCGCTACTACCGTTCCGGCGCAACG
 GCATTCCTGATGCCCGGAACGTATGTAATGGAATATAGAAACCGAAGGCTGGGCTTG
 AACGTCATCTCGCACAGATACTCGGCAAGACACGCCGACGCTGAATTTGAAGCCTAC
 TTCGAGACGACACACACGATCGCGGCATCAAGCACTGTCGGCTTGTCAACATTCGCG
 GGCAAGATGGATTTTATGATCCACCGTTCGCGCATCTCGCATCTTGAAGAACCTGCAT
 TCGGATACGCGGAATTTGCAAAAGCTGCTCGCGGAATATTCGCGCATTA
 AATGCGCGCTCAAGCTTCAGACGGCATTTCAAGCTGCAAAAAAACCATTCATACCAA
 GGGTAAGTATGAAGTGAATACATATTCGCGGAAGAGCTTACTTGTGTCAGCTGCCGAAA
 AGGGAGAAACGGCAGCGGTAAATCAGCGGAAGGAATGTACCGGAATTAATTAAGAAAC
 GTTAATCGGAAATATATTAAACAACCTGTGAACCTTATGGTTTTCGCGTATCAACC
 GACGCCGCTCAACACAGCTTCTCGTGGCGGCGGACAGCGAGCGTTTGAACAGT
 GTTCACCATCTCAAAACCGTCCGCTTCAAGAGTGTCTGCTGCGCGCGCTTCTCGTA
 AATCAACGCGCGGATTTATGATCGAGCTTCTGCGCGGATCAACATCAAC
 AACGCCGACGCGAGATAACCAACATCAACGCTACTGCTGCCCATCATCGTATCGTTC
 CAAAAGCGCGAGGCTACTCATACGCTGGAAGTTTGCCCGAAGCGAGATATTGATT
 CCACGCCCGCAATCGCTCATTTAGTGTTTTATCCACGGGCGCAGGGGCGAGCGCTCC
 CGTTTAAAAAGCGCCCTGCGCGGCTTGGCATAAAAAATCATCGCGCTGACTGGGTGT
 AGATTACGCCCACTCGCGCGCGCTTGGCGCAACGCCACCGATACCGCAAAATGCG
 CGACGCGCTTGAACAAATTTGTCGTGCGCTATCGGATCGACAATCACACGCGCTTT
 CCGCGAATATTGTTCCCAACAGCGAGCTTCTGCGCGGAGATTTCTCCGCA
 TCGGCTGTGATTAAGCGGCAAGCGCGGCAAAAGCGCTTCCGCGCAATTCGCG
 CCGCTCAACATCGAACGCTTCTCTGCGGTGAGAGGCGCATTAACAAAACGCGGCA
 TAATTTGCGTTTGGCGATATGGCGACGACATTTCTCGAAACGGGTGAACATTCCTACT
 GTCTCATATTTTGAACTTGCGGCGCGGCAAGCTATATGTTCCGCTTCATCAGCGGCT
 CGCGCATATTAACCGCTCGGACCGCAAAACATATGCCCCGATTCTCACTGCCGAA
 ACCTTTTCGCTGGGCAACAACGCTCGCGCTGCGGCAACATCTGTCGCGCACTCAACGTGC
 TCGCGCTCCGCGCAACCAACATCACTCTCGGCGGCAAGCGCAAGCGCAAGCGG
 CAGCGCTGCGCGTTGGAAGAACCGCGCGGAGCGGAATCTCGCAAGCAACACAA
 CGCACACAGTCCCGCTCAACATCACTGATACAACTCATCTCTCGCGGATGCGA
 TGGATTTCAACCTGCAAAAGAGCTGGAACCTCGCGCATACCGCATACAGCCGCTCATCA
 CGCAAGCTGCACTCGCGCTCTGATGGGGAACGCGCGCAACCGCTCGCAAGCTGCG
 AGGAATCTGATCTCCGCTGCGCAACAAAGCGGCAAGAACCGTTCCCGCGTACTGCG
 CCATCATCGGCTACCGTGAAGCACTTGACAAAAATGCGGCTGGAAGCACCAAGCTGATTA
 TGAGCATCAACCGCGCGCAAACTCGCGGATCGGCACACGCTCGCGGCAATCGCT
 TATGCTCGCGGCGGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG
 GCTTTCAGGCGGCTTACCTCGGCAACGCGGATTTACGCAAGAACCGCGCATCGCGG
 CCCTCGCGCGCATGCGAGCGCTTTGGGCGATTTCGCAATAACAGAAATGCCGCTGAAA
 CCGCTGACAGCGGCTTTTGAAGCTTAAAGTATAGTTCGCAATAGATTTCCCGTG
 TCGTCAATTCGCGGAAGCGGGAATAGAAACGAAACATACAGAGATTTATCGGAAC
 AACAAOCTCTCGCGCTCATTTCCGCAAGCGGGAATAGAAACGAAACATACAGG
 GATTATTCGGAACAAACACCTTCGCGCGCTCATTCGCGGAGCGGGAATCTAGAA
 CGCAAAACCTGCAAGATTTATCGCAACACACCTTCGCGCGCTCATCGCGGCG
 GCGGGAATCTGAAGTTAAGCTTCGCGGATTTATCGGAATGATCGGAACACAGG
 ACTGATTCTCGCGCTGCGCGGAATGACGAGATTTTGGTTTCTGTTTGGTTTCTGT
 TCTCGCGGGAATACGGAATTTAAGTTTGAAGATTTGTCGGAACACAGAAATCCCG
 CGCGCTCATTCGCGGAAGCGGGAATCTAGAAACGAAACATACAGGATTTATCGGAA
 ACACAAACCTCTCGCGCTCATTTCCGCGAAGCGGGAATCTAGAAATTAACGTTGCG
 GGTGATTATCGGAATGACTGAACACTCAACGGAATGGAATCCCGCTCGCGGGAATGA
 CGAATTTAGTTTCTGTTTGGTTTCTGTTCTGCGGGATACCGGAATTTAAGTT
 TTAGAAATTTATCGGAACACGAATCCCGCGGCTCATTCGCGGAAGCGGGAATC

Appendix A

-451-

TAGAAATTAAACGTTGCGGTGATTATTCGGAAATGACTGAACTCAACGGACTGGATTCC
CGCTTCGCGGGGAATGCAGCAATTTTAGGTGCTGTTTITGGTTTCTGTTTTCGCGGA
ATGCAGAAATTTAGGTTGTTCTGTTTGGTTTCTGTCTCGCGGGAATACGGAATTTTA
AGTTTATAGGAATTTGTGGGAAAAACAGAAATCCCCCACCGTCATTCCGCAAAACGCGG
AATCTAGAAATTTAAACGTTGCGGTGATTATTCGGAAATGACTGAACTCAACGGACTGGA
TTCGCCGCTGCGCGGGAATGACGAAGTGGAGTTTACCGGAACTTAAACACAGGGAACCC
GAAACGCTAGATTGCGCGGGGAATGACGAGTATCCATTCTTCATTTTAATCTTAATCT
CTATTATTACCAAACTATTGTAGCGAATGACGCGTGTGACGCTGCGGTAGCGTTCTCAACG
TCCGCTCGCTTTGACGCTCCATCTTTTCTTCTTTTCCCTACCGAAATTTACCCAAAGCA
CGCTTCAAGTCAAAATCATCACCTTCAACGAACGGCGGTGCTCTTCTTCTGTCCCTATCT
TTTTCCAAATCGCTACCCAACTATCGTTTACTAGGGAATCGGCAATATGCAATCTCT
TGGGTACATAAGCGGGGATTAACTGATAAACAGGCACTCCCTCCTTATCAAGAAATAA
GTAAACATCATCCAACTACCGCTTTAATCCATCTCTCGCGGCAAAACGGCAACCTTTCC
AGAAATAACCGCATCGCTACCGCGAATGATHAGCCAGCGCTCCCAATCTTGCTGCT
TCAGCAAGGAATGACGCTCTCATATTACAGGATTTATCCGCTGACAAATCT
TTCGAAACATCGTTCCAAACGAACGATAAGGCGAGAATCCTTATCAAAACGCTCTTCC
AACCAGTATCTTCGGCAAGGAATTTTTCGCTGCTTTTGGCAAGCAGGACATCATCTCA
AATACGGCAACATAGGGCAGACCTTCATCCAATGCTGTTTCCACAATACGGCGTGCTC
ATAAAGCAGGCTTTTCCACTTCGCTCAACAGGTGCTGTTTGGCAATCCCGGCAACAT
TCCGCCATCATCGATTACGTTCTTACAGCGGCATCATGTCGTCGGAANAATGAAACGGG
ATCGCGCAGCAGCGGAAGTTTGGCGCAATGTGCGCCTGCGTTCTGCGGCGAAGCTAAG
CTGATAACATGTTTGCATAATTTATCTGTTTCTTCTGCTGATAAAGCGCGGCTT
TTCAACGGCTTTTACGAATCGCGCAAAATGCGAAGTATTGCTCAAGGTAAACACCG
GCCGCTCTCTGCGCTCTGCTGCAAAATCGATCTCTCTCTCTTATTGGAAGG
CACAAATGAATCTGTCGCGCTTTGCGCGGCTTTTCCCTTCCCTGCTGATTTTGGTCAA
GGCGCGGATCAGCGGCTGTTTGAATGTGTGGCGGGGAATCGCGCTTTCGCTGTTGCG
GTTTCAGGAGCGGCTGTTGATCAGCTGCGCAATCGCTGTTTGTGCTGTAACCTT
GGCATTAATGAGCTCTTGGGCGCACAAACGGGATTGAGCTGGAACACCGCATCTCTCT
CTCTCGCAAAATTCGCTGAATCTCATGATGCGGGGTCGCGCTTCGCGCGGAG
TCGCGCAACCTCTGCAAAACGCAACGCTTTCGCTGCGGATGATATGCCCGATCT
CCCCCAATGTTGCTTTCCAAACGCGGAAGGCGCGCGCATTAATCCGCAACGCGGAG
GGCGAGGTCAGGACGTGATAAAGCATGTTTCCAGCGGACGATTAAGCGGATATCCGG
GTCAAAAGCTTCTGACGCCAACGCTCTCGGCAAGGAATTTTCCGCACTTCGCGGAG
TAANAATCTGCTCAATACGCTGATATCGGCGAGCATCTGCTCAATGCTGCTTCCA
CAATACGGGCTGGCTCATTAAGCAGCGCTTTTCCACTCGCTCAAAATAGGGGTGCGCGGA
CAAGCGGGGACGAGTTCGCGCATCTGCTGTCGCTTTCAGCGGATCATGCTGCTCT
GCAAACTGAAACGCTGCTGCTGCTGCAAGGCTGCGCAATGTGCGCGCTGCTGCT
TGCAGCGAAGCTAAGCTGATAACGCTGTTTTCATTAATTTCTCTGTTTTCGCTGT
GGATAAGCGGCGTTTTTCAACGGTTTTTTCAGCAATCGGTGCAAAATGCGGAGTATTGC
CTCAAGGTAAACAGCGCGCGCATCTGCGCTCTGCGCAAAATCGGCAACGCGCGCGG
GGCAGCGTTCGCTCGGTTTGAAGCATTGGTACAAACCGCGCGCGCTTCAAAATCT
TCTTCGCGAAATGTTTCTCCAGCAATCTATACGCTACTGCTTTATTGCGGCTATTCA
AGCTCTGCGACCGGGTTTTAAACACCATAGCTGCAAAATATGTTTCTGCGGCTTTT
TGAATGCTTTCGCGATCTGCTTTGCGGATGCTATTGATGAACATGATATGCG
TGAAGCGGATTTGACCAAGCTTCGGGATAAAGCAGCTGCCAATTTGCTGACA
TCTTACCAAAATTTGTAATCTTCCCGCAATCCCGCTCGGTGTGTGAACGAACCGCGG
TCAATGACGCTGCGCTCATATACTATCGTTGTGTGTATGGGTTTGCAGAAAGGAAA
AAGTCGCCAATGCTCTGCTGCGGCTCGGTTTTTCCAAATTTGCGCTGTTCTGTGCTG
CGCGCAAGCGGTGCGCTCCTTTCTTCGACAAACTTCAGCAACGACCCATCGCGG
ATGATGCTCGGCTGTTTTTCCATCTCACCCAGATTTTCTCAATCCAGTCGGGCGCGCA
ATGCTGTCGATGCTGCGGATAATATGCTATCCCCCGCCCGGCTTGCATCTGCAAT
TCCAGCGCTTTTAAAGAGGCAATCAGAACGGAATTCGCGGCTGCGCGGATGCGG
ATCGCGCGCTCTGTTTGGAAACGCTGGGCAATGCAACGCTACGCTCGCTGAGCGG
TCATCGACAATCAAAATATCCAAGTTGCGCGAAGTTTGAATTCACGCGCGCTAATGAT
TGGCGGAATATTTTCTACGTTGTAGGCGCAATCATACGCTGACTAAGGCTGCAAT
TATTCTCCGATAGGCAGATGCGCTGGAAGCTTCAGACGCAATTTGACTGTACAA
CGGTTACTCGCCCAAAAGGGGATATCGCTACCGGCTCATTTGTTTGCACAGCGGTT
CGCAGGTTTCAGCGGTTTTGTTTCAGCGGCGCATCTTCCGCTCAACATCAGCGCTG
CAAGAACGATCATCTGCGGATAATGCGGATGCGGCTTGGCAAGCGGCTGCGGAAT
GCTTTCGCAACGCGCGCGCAATTTTCGCTGCAACGCTTGTGCGGCGGCAAGAGGCG
TTTTTCTTGTGCTGTTGTCAGCAAGCTTTGTTTAAACGCGCCCACTTCGCAATCGGCTTT
TTTCAGCAGGTTTTCAGCGGTTTGTGTGCGCGGCGGCGCGCGGCTTCGCGCAGTTG
TTTGAACGCGCGCAGACGCTCGATTTGGCGTCAATGCTCAACGCGCGCGCTGCTT
GGCAAGTACGCGCAACGATGCTTTCGCGGATAATGTTTTCGCAATACGCGAAGCGG
CGCTCATAGAAATGCGCGGTTTCAGCGGCTTTTTCAGCGCAACGCTTTCGCGGAA
GCTGTAAGCGGCTTTCGCGGATGCTTTCAGCGCAACGCTTTCGCGGATGCGCGGCTG
CAAAATACCAATCGCGCGCGCGCGAGCGGATATGCGCTTTCGCGCGGCTGCAATCAG
GCCGATACCCCAATTCGCGACAGGTTTCCAGTTTTCGCGCAAGCGCAACGCGCGCGG
AATTTTGCCTTCAGGAGGTTGTCGCGGCAACCGCGGTTGGTATGTTGCTGACGCGG
TTCGCTAATTTCTTGGTTTCGCGGTCGAACGCGGCTAGTATTTGCCATGTCGCTTTC
GAGTTTCGCGGACCTCGCGCACTCTGTTTACTAGTTCGCTTTTGCRAACGCGCGG
CGGCTTCGCGCTGCGCGGCTTCGCGGCTTTCAGCGGCTTTCGCGGATATGGGCGGAGTGTCTG
CGCGGCTTCGATGCTGCGGCTTCGAGCGGCTTTCGCGGATATGGGCGGAGTGTCTG
TTTGGCAGCGCGCTTTCCAACGCTGCTTTTNGCTCTTGTGTAGAGCAATCGGCTC
AGACGCGCGCGCGCAACACAGCTTCATTCGCTTGAATGATGTCAGCGATCTTCGGT

-452-

[illegible]

Appendix A

-453-

GCGGAATCATGTGCGGTGGAAATTCACAGTCAACAACCGCACCGAATAATTTGACGATTT
TGCCCTTGGCTCATTAATCGTATCCATAATTTCCGTACAGGATTCAGACGGCATCAGACAGCC
GCGCGACCTGCTACAAATTTCTGACAAATTCGGTGTAACTGCGAGCTTGACGGCGATTTGTTA
TATACCAACCGCACTCTTTGATGGCATTGCGCTGCATTTGCTGTGTCAGCTTTTCATGGCA
ACGATCGGGGTGCTGTTGCGATGCGCATATTGTGCTCAACGCCGTGATAAACCCAGAC
TGTAAATAGCGCGGAACAGATATTTCAACACTGCGAAGTCAGTCGGTTCGTAGCGGTAT
TCCAGCTGACAGCGGTGATTTGGAGCTGAATCGCAATACAGTTCCTACAGATAGCGAC
ATATCTTCCATTTCTGCTCTCTTGGAGCTGATTTGCAAAAACCGCGATACACAGATGG
ATTCGTGCAATTCATGCTTTCTCATACGTTGGAGAGTTCGTCAAGGTCCGACAGC
ATTTCCATTTTGGGGTATCGCCAAATTTACGGCACTGGCAACCACATTCAGACCAATG
CTCTGACAGCCCATCAGACCTTTACTGCCAAAGCATACGATTTCTCTTCAATACCTTGA
TTCGGATACTCTTGAACCTGTGCAAAAACCTTTTTCAGCAAGTTGGCGTTCAACCGCGCA
CACAAAACCTTATCAGCAAGTAACAAAATTAACAAACCGCACGCTGTGATTTCCCGATGAGT
TCCAGTAAACGGATACCATGATCGTATTTGGTTGCGCAAGATGGCTCATACCATAGCG
ACTTTTTCGCAACGACCGCCAAACGCGATTCCTGCTGAGCTTTCGGCATTTAGGA
GTTCAGACCAATCTGCACTGCGCTTAGTGATCTTTGGGTATTTGACACTCGCGATTTTG
GTGGAATCTCTTTCTACTGCGCATTCAGACTCTTCACTTCAAGCTTATGCTGTA
TAGCGGTAAAGAGATTTGAAGGATTTTATGGCTGCTTCAAGCGTTTCTCGCTCTCGTGC
GACATTCGACCTGAAGCATTCAGCGCTTCCAAAACCTCCGGATGTGGGTACGGCAAAAG
CTCAAAAATTCAGATTCAAAAGCCGAGCTTTGGCAACCGGACATCAGATACGAAACG
TTGTTGATTTGCCCAAAGGTCCAAAGCCATTTCAAGCGTATTCACGCTGATGAATCTTTTC
TGTTTCATCAGTTGGTTACGACTTTCGCGATGCTCAATGTTTTCGGCGTACGCTCATCC
AATCGGATGCAATTTGCAAGACCGGCTCAATTCAGCATTTATGCGCAACGCAACCG
ATACCGCACCCAGCTTTTAACTACTTTGGTTTGTGACGACCGCCGCTACGCGGATACG
GAAATACCGGCATGATTGACGAGCGGATACCGCGGTTGAAGAGGTCGGTTTCCAGAAA
ATCTGACCGTCGGTAATCGAAATGACGCTTAGTCGAAACGAAAGCAGATGCTGCGCGCT
TGGGTTTCGATTAATCGGCACCGCGCTCAGAGAACCGGTTTTCGCTTTTACTTCGCGCTG
GTCAATTTTCCACTTCTGGTTCTATTGACAGCTGCGCGCACTTCCAAACGACGGAGTGC
AGGTAGACACATTCGCGGATAGGCTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
ATTTGACGCTGAATTTGCAATGCTTTGTTGCAAGTTCAGCAATTCAGGCTATTCGATAGG
CCAGCATCGCGGAAGAATTCACCACTGACAAACCGGAGTAAGTTCGATATTCGAAT
GCCGCGCTTCAGATGCGATTCGACGACACCATGATGATGCTCCATCGCGCATGCTCT
TCCAAATTTGCGGACACGCTTGGCAATAGAAGTCTTTTTCGACGATAGCGACATAGATA
CAGATAACACCGCTACCTTTTGGTTGACGATGGCATCAATGCTACCGCGCTTTTACCT
GTCTGACGCTGCGCAATAATCAACTCAAGCTGACCGCGACCGCAGGAACTAGAGTCA
ATCGCTTTCAGACCGGTTTGCATCGCGTGTCAACGATTTTGGCGCAATCAACCGCGG
TGCAATTTTTCGAATTTGATTAATGCGCTTTCGCGCTTTCGCGTTCGCTGATAGG
CGACCGATTCGCAATCAAGCGCGCTGCGACGCTGCGCGTGCACCGCATTCGAGATA
GACCGGTCAGAGTAACCGTGTGCGCTTCTTAAATGTGTTGCTACGCGCAACCACTAG
CGCGCGACGAGTTCGCGCTCAGGTTTCATCGCCAAACCGGAAAGTTCACCGGGAATTCG
AGCATCTCACCTTGCATTCGATTCGACAAACCATGATGCGAAGCATACCGTCAGTTACC
GAAATACGGTACCAAGGTACGCACTTCGCGCATTTACAGACAGATTTTCGATCTTGGCT
TAAATCAATTCGCTAATTTTCAGCAGGATTAAGCTGCTGATAAACTCTCTAATTCGTCAT
AGTCGCTGACAAAGGCATTAATTCGCTTGTGACAAATTCGCAAACTGATACCGCT
TTCACTCTTTTATCGCGCAATGAGCTTCGCTTTCGATTCGACAGATTTTTCGCTGCTG
GTGGAACCGCTTTATTCGACATTTGCAACCACTCGCGACCTGTTTTCGCTGCAACGATA
GGCATGTAAATGACGCGAGATTTGATATGGTTGAATGATAGGTCAAGTCTTGATATTG
AGCATATACTTCGCGCAATTCGCAAAACGTTTCGCGCGCGCAAGACGATACAAAGTT
TTTCAACTCTCTTCTTTCBAAACCGAACAAATCGATGAGGATATCTGCTTTTTCGAAGC
ATTCGTTTCAGGACGCTCAATCAATGAGCGACCTTTCCTCTCTGCAACACCGCGCAAG
TTGTTTCAGCTTCGCGCAACCGACGATCAATTTGGTTTTCGCTGAGCGACGACGATA
TGCTTTTCCATGAGCTTCGCGCTGCGGACGCTTCGCTGATTCAGCTGCTGCTGCTGCT
TCAGGATTCAGACGATTTTCGCTGTTTGAAGCATCGACTTCGCTGGCGCAAAATAGAT
CGGCACTTTTCAGCGCAACACGGCAACCTGCTCGCGAGGATTCGCGTGGCGGGAACA
ATTCCTGCTCCACATCGGCGCTTTGCTGAGCTGCAATGCGCGCGCTCGGAAGAGCGCT
GTTCTTTGCTCTTCGACAAATTTTGGCGGACGTTTTCGCGGCTTGGCAACCATTTGCG
AAACCTGATTACGCCCTTTCGCGCAAGGTTTCGCACTCTTTTTCAGCTGCTGCTCAAAAT
CGCTTTTACAGCGCTGCGCGGACGACGCTTTCGCGGCTTTTCGCGGACGCTGCTCA
AGCTTTTCGATTCGCGCGCAACGAGATTCATGATTAACCTCCCAACCGAAAGAG
CGATGATTTGAGCGAATATGTCATGATATTCAGCTTACTTAACTCTCTGCTACTGGGG
TAAATCAACAGGCTGCGCTGTCAGGGAACGAGCATCGCTGCTGATTCGATATGCACTGCA
ACGGGTTTAAAGAGCGCAACAGCATGCAATGGCGACCACTCAAGATTCGCGCATCA
ATCAACCGGCAATCAGGACAGATTTGGTTTTCAGCGGACGATGATTCGGGCTGACGG
CGAGAGACTTCAAAATTTTGAACCGACCATTCGATACGATAGAGCGACCCCATGCA
CCCAATGCAAGCTCAAAACCAATGCGATAGCAATCAACCATTTTAAACCTCTTAAAG
AAACAAAGGTTTAACTGCAAAACCAATGCGATAGGAATACAGTGGCATCATGCGCT
GTTCGATTAAGCGAGCGCAACCGCAAGAAATTAACGCTTCAGGGTAAATCCAAAGAA
TATGGAAATTCGCGCATGCCAAACCGCAATATGTGAATCAAAACGAAATCGGATCCA
TGACTTCGACGCTGCGGAGCGCGCGCAACCGCAAGCAAGGCTATCAACAGAAATA
CCAATTCGCGCGCATACATATTGCGGACCAACCGCATACGCTGGGATACGCTTTTGA
GAACTTCGACCAAAATCAACAGAAAGTTCGAGGTGCGGATTTTCACGCAACGCGCGCG
TGACAACTCGTGAACCGACCAACCAATCTTGAATTTGATGTGTAATGATGATCAAA
TCACAAACCGCGCATGCAAAACCAATGCGTGTGCAATGCGTGTGCAAGCTGCGACG
GCACAGGCGCTGATGCTTTCGCGCTAATGCGCGCATACATTCGCGACGATTCGCG
GCACGATATCCATCGGTTTCATCAGAAAAATCAGACAAACAGGCTCAGACCCAAACGCG

Appendix A

-454-

CGACGGCTTTCTAGACATTTTCGTTGTGAATGATGCTCTACACATATCTGCCACAAACT
CAACAAGATTTCACACTCGCGGCTGGAAACGTCCGGGACAGCCCTGCCGTCGCTTTTGTG
CACC CGCGCACACAGAAAGCTGCCGATTACGCCCAACAGGACGGCAAAAGACCGCAT
CAAGGTTAATAAAGCAAAATACCAATGTTTTCAGTCCCTGACCCGAGTAAACATCG
ACAACTGGTCARGCTCTGCAAGTGGTCTTGATGTAGTCGGCAGCGGTATGTTCTCAC
CTGCCATTAATCTTTCACCTCTACACATACTAAAAAACCAATGGCTGACCGCAGGACAG
CCGATCGAAGACAGGACAGACGAGTGTATGTCATATGTCGAATACAGACAGAT
GACACACGGACAGCACTACTTTTAAATCTCTCCGAAACAGCACTCTCGCTTTGCGAG
AAGGGCTTCCCTCGAAAGTTTAAAAAGTAAACTGCACAAACGTGGGAGCAGGTAG
GACAAACCGCCACCGACCGCCGAAGGAATCCGGCAAAACCCATACAGCAAAAGCCACT
CGCGCGCATATAGCAACATACGGCGGATTTAGGATGATAATCTGCTTCATAAAGGGAATG
TTTCGCGCTCGGATTTGGGCGCGGCTAATAATATTTAGAAGCTTATTCGTCAAGCGA
CAGTTAATCTTTGTGAACAGGTATCCCAATCGCGCGCGCTCGCGCGGTGAATACGGCG
GACAGGCTGCATCTACACACCAATACATAAATACAGGATATTAAGAGATTTGTGCGG
AATTTCTACATTTTATCTGCTTACGTGATCTGTTGTGTTACAGCGAATATATPAA
AAATCAACCGGAATTTGACAGCTTTATCGGTCCGATTTGTCCGAGTTTGGGGAATTTGC
TCAATTAATAAAGGTCGTCTGAATAATTTTCAGACGACCTTTTCCGAATAAGGATTA
GCAACTGCCCTGCCGTTTAAAGCAAGCATTTGATTGACTTTTGCTTTGTGCGTTCGCGC
TCCCAACCAATTGCACTCGGAAGTGGTAAGCGCATTTGCTGATTACACTGTAACATA
GCATTGGCTCACCGGCTTACCCACAGTTCGGGTAAAAGTTGATGCGTATGCTTCATTGTT
CGGCTTGCATGTTTACGCGATTTTGGCTGACGCCAAGCGCAACGGGACGCTTCGCTG
AAGTTCTAGTCGGAAACGGTTACATATGATGAGCGCAACCTGATATCCCAAGCG
AACGAACGGACGGCAACAGATGATGCTGTCTCTATAATTTCTCGAAAATATAAATGA
AAACAGGAATAACGATTCTTACGTGAACAGAAAAATGTCAATAGAAATATATTTCCAC
TTAAATCTCGAAAGCTATTTCTATATTTTCAGACGGTATATCCCGCAAAATTAAGCGCG
GTAATCTATGCCCAACTGCTCCAGCAAGCTGGCGGAAGCTTTCAGGCGTATCGAATACAG
GACATCTCTGCCCTTTTTCGTGGTTCGCGGTTTGTACTTCAGCGTTGACACCCAGTTTTC
AGTCAGCAAAATCATAGCGGGCGCGATGTCCGCGGGCAGCTCTTTTGGCTCGGGACG
TTTGTTTGAAGGGCGGCTGGCTGGCTGATGCTGCGCTGCGGCAACGACGCGCTTTT
GACGGCTTTTGGCGGCGGCTGCTTTCAGCAGGGCAGGGTCTGACATCTGATATGATG
GTGCCCATTTCCAGCGCGGCTTGGTAAGCAATTTCTGCACGGTTTCGGGCGGCTTAA
AAGCGCAGGGCTGTGGAAATCGGCTTCGGCTTTTTCAGCGAGGCTTGGCGCATGGTTTC
TGCGGTCAGCGCGAAGCTGCTCGGCAAGGCGTTTCAAGCTTGTCGCTTCTCGATGGGCT
GAGGTTTTCGCGCTGGAAGTTTTCGATCAACCCATTCGCCATTCGGGTTTCGTCGCTGAT
GGTTTGTATACGCGGGGATTTCGGTCAGCGCGCAATCTGTGCGCGCGGCCAACGCGCG
TTCGCTCGCAATCAGTTGATTCAGGACAGCTGTGCTTTCGCGGCAACGACGGCTGAT
CACGCTTTCGCGCTTATGATGATGATGATGATGCTGCGGCAACGATCAGCAAGAG
ACGCGCTGTATAGCGCGCGCGCGGATATCTTAMCGCAACCGTGGTCAATCGCTGCGG
GCTGCTGTCTCGCGCGGCTTGGCGAGCAGCGAATCAAGCCCGCGCCCAATCCGCGCTTT
TACTTTTGGCAATCCGCGCTCCGCTGCTTATCAGATAGGATGTTAATCGGCTATTTTA
TCGGATTGGGTGTTGCCGACAATTTGATCCGCGTTTATCGGATTTCTGTTTTCAC
TATAATAGCGGTTTTCGCTGCGAGCGGTTTATGGGAAGCGGATGATGTCAGCGCG
TTTGAATATCGCATCAGCGGGCGAGCGGTTTCCATATCCGGCTGAGAGCTTTGAAAT
TTTTCGCGCGCAAGATGTCGAACCGCACTTTCGTTATCGAAGGTCGGGAGTGGCGG
CGCTTCGGAACAGGCTTATGCGAGAGCAGGATATGCTTGGCGCACTTCGTGATCC
GATCGGCAATATCGGGGCTGATTCAGCGCGGTACGTTTAAACGGATGGGATGCTGCT
CGCCCGCTGTTGATGCGGACGCTTTCGCTCTGCGCGACGCGCTTCGCGCAACTCTGCT
GACGCGTCGGCGGATGCTGTTTGAAGGAAGCGCGCGCTGCTGCTGATGCTGCGCGA
AAGCGCGCTGACCTTTCGCCATTTGCAACATATGAAGCGGTAAACGAAATGGGCGGCT
GCTGTTTCCCGCTGTTCTCGGATGATCCGCAACCGCGAGCAGCGGCGAGCATAGTATGGC
GCACGATTTGCGGCTGATGCTGCTTTCGCTTTCGAGTCTGCGGATTCGGGAGTTCGGG
GAGTGAATGAGCGGATTTAAAGACAAATGCTCCTCTGACACGAGTACGATCAGCGG
CATCAITTTATACGACTGCTTATTTGGCTGCGCTTCAATCCATCGCGGACGGGATTTG
TAGCCCTCGAAGCTTTTGTGCGGCTAGGCTTTGAACGCGTCGGATATAGGCTCGGTT
ACGCTTTAAAGCATTTGCTGCTTTTGTGCGCGGCTTTTGAAGGACAGCAGTTGACATAG
GCAAGCTCGGTTCTTGAACAGGCGCTTCGCTCACTTATGCGCTGCTTATGCGGTAG
TTGCGGCTTGACGAGCGCAAAATCCAGCTCGGCGCGCTACCGGCGAGTTGCGCGGCTTCA
AGCTCGAGCATTTGATGTTTTCAGGATTTTCGCGATGTCGCGATGTCGCTTTGACGCGGTCAC
GATGATGCGGCTGCTTGTGATCTCAACCGCTGCTGCTTTCGACGCGGACGATCAGAGCGG
GCGAAGTTGACGCGGCTGTTGGGCGGCGATCGCTGCTGCTTTCGCTTCTCCAGC
GATTCAGCTTGCCTCGGTCAGCTCCCAAGGCGCGGTCGCACTTGAAGACTTCGCTG
ATGTCAGATTTGCTGCTTTTTCAGGCTGCTCAAGATAGGCTTTGCTTGAAGACGCTTG
ATGTCGAATCGCGCTCAGCCATGCGAGATTCGCGGCTACATAGTCGTAACCTCGACC
AGTTTGACGCTGTAGCTTTTTCGACGCTCGGCTTGAGATTTGCTTTCGACCATCTGCG
CCGAAGTCCGCGAGCGGCTGCGGCAAGGACGATTTCTTTTTCGCGCGCGCTTTCGCGG
CGGCGAGAGCGGCTGCGGCGGCGGCTGCTTTTTCGACGCGCGAGGCGGAGATG
AGCGGAGCTGCGCGCGCGGAGGCTTTGAAGAAGGTTTCAATATTTCTCCTGATGTT
GTGCGATTTTCAACAAAAATAGCGGCGAGGAGTCTGCCGTCCGATTCGCGGTTCCAG
ACGGCATTTGCCGCGAACAGGGGGATTTTATAGCATTTTCGGATAGCGGTGGGGGTTT
GGCGTTCAGACGGCATTCGGGTTCAAGCTTTGTCGAGTTTTCGCGCGCAACGCGTTCGCGG
TGCTTTGATCAGGATGACCAAGCAGCAGCAGGAGGCGGCGAGCATGAAGATGATGACTTTCG
TTTGTAGCGGTAGTAGCGCTAGCGGATGCGGAGGTGCGCCCAAGCGCGCGCGCTATACA
TCCCTCCGCGCTGCTGCTGCAAAAGCCGATGCGAGCAGTATGCTGCGGAGGATG
TCCCGCGCGCGCTTCTTCAAGAGACTTTCGACAGATGGCAATCGCGCGCGACCA
TCGCGCGCGCGCTTCAATACGCTTTGGGGACTTCGCGCAGGTTTGTTCACACAGTC

-455-

[illegible]

Appendix A

-456-

A CATGGGCGAAGTCAACAAAATCCTGAAAGCCGTGCTGACCGCGTATTGGCCCGAATAC
 GGACAAAATGCCGTCTGAAGCCCGTATCGCAGGTTCCAGACGGCATTTTCAATATCCCAAT
 ATCGAATCGGCGAGGGGCAACACGGTTTGTATACGCCGAACCGGTTTTCGCGATTAACAG
 ATTCCGTTTTCGCGCCCATCGGACAAAATGCGGCTGTGAACACGGATTCCGTTTCAGACGGCA
 TAGATTTATTGTACCAATTTCAAGCGTTTTCGCGCGGTGGGGCGCGGTTTCGGCAGAG
 GTGTTTTTCAGGCGGGTATCGGGGCGGTACCGCTTCCAACTCAACCCCAATCCTTCTCG
 GTCTCCCTGGCGAGTGAAGCGGTCTGGCAGAGTATCCATATATTCGTGGCGCTGT
 CGCCGAAGCGGGGAGAAAGCTGATCAATCGTGTGCGATTGTGAAGTTTTCGCTGGCG
 GTCCGCGCATGTTGAGCATAAATTCGTTTCGCGGACGATCTGCATGGGGACGCGCGTG
 TGTTCGTTGACCCAGACAGGATGTGCGGTTGTAGGCTGTGTGCGTGCACCATTCGCG
 AGGGCGCGAGGATGTAGGTTTGTGTGAAGTGGCGATAATGGGTTCCGTGTGTACGCC
 AAAATAGGAAAATGCGTGCAAAACGGTGGGTTTTCAGCACTTTCGCGATTTCGGCA
 TGGCTTTTCGCGGGTGTCAATGCTTCGATAAGGCTTCGCGCTGGAGATGCGCTCGG
 CATTATTGAGCAGGGGCGCGGACATTTCGCGAGTTGTGCATCTGATGTGTGCGCGGCGC
 ACACGCGCGGCGAGAGCGGCATCAATCATAGAAAATCTTCGCGCGAGGATTTGTTG
 TTTGCTGAACGAAGGGCGAAGCATGTCAGACGTTTCGCGATGGCTTCGCGCGCTTTTG
 CCGTGTCTGTTGTTGGTGGCGCGGGGTTTCTAACAATTGGAAGTGGTTGAACAAATCTT
 TTTCCATACGATCAGCACAGCGCGGCCGACCGCGCATACCGGATCGCGCGGCATCA
 GCTCGGATGGGGAAGGTTTGTCAATGATTTCTGTGATGATTTGACATCTGTCAGCA
 CCAATTCGCGCTGCACCGACCGGGAATCTGTTATATAGGATTATGACGCGAGCTCTT
 CGGTTTGTGTAATATCGACGCTTTGATTTTCAAACTCATACCTTTTTCGTCAAAA
 CGAAGCGCGAGCGGCTGAGAGGCGGATGAGTGAACGAGGCTCTCATATA
 TGTGCGCTCTGTGTGATGCTGCAAAACGGCTGATTATAGTGATTAACAAAACCGAG
 TACGGCGTGTGCTCGCTTAGCTCAAAGAGAAGCATCTCTAAGGTGCTGAAGCACCGAG
 TGAATCGGTTCTGCTATTGTGATCTGTGCGGCTTCGTGCGCTGTGCTGATTTTGT
 TAATCCACTATATAAGGTTTAAATCGCGCAATTAATACGATTTCCGCGCACTTAATCCAG
 AAATTCGCGCTCAATCTGTTGTTTATATATTTTCCCGATTTCGATACAGTGGGAA
 CTTCATGCTTTTGTGTCGAGGCGCGACCGCTTCGCAAAACCGCTGCGCAGCTTCGGGG
 ATCCCATTTGTCGAGGCTGAGAGGCGGATGAGTATGATATTCGCGAGGCTCTCATAA
 CGGCAATGTGCGTACTGCTGCAAAACGCGCTGTGAGAGTTCGCGCGCGCGCTATGCG
 GATACATCGATGCGGCTGTAAGCTCCGCTTCAATTCGCGGGAAGAGGATGCTCCAT
 ACTCCGGAAGCAGCGCGCGTGGCTTTTCGCGCGCTCAGGCCAGCGCAGGACAGCGCTAT
 CAGCAAAAGCCGATCGGTTACGCTGCGCGCACTGTTGTAACGCGCTGCTGCTGCGCG
 TATGTTTTCGCGGTAATCGCGCACGCGCAAGGCGTGAACAGTACGCGCAACCGCAT
 CGGAATGGGATGATATCAGAGACATATTCGCGCTGAAATAGGCGCGCTTCGCGAAG
 CTTCGCGCGCAGCGCTGATCTGCGCGAAAGCCGCTGACGGAGCAGCGCAAGAG
 TCCGAACCGCATTAACCGGCAACCATTTGCGCGCGCGCGCGCGCTCAGGCTGCT
 CAGTTTCGCGCGCGCGCAAGCAGCGCAGCGCGAGCAGCAGCAGGATTTCTGMAA
 ACGCTGCGGATTGACGCGCAGCAGCAGCAAAACGCGCAGCATACAGCAGCGCCCAAAAT
 CCCCAGTTCGCTGAAACACAGCGCGCTGGCGCAACGCTCAACCGCCACGCGCAGCG
 GGGCAATGCAAAACGAAGCAGGTTTTTCAGATAGTAAACAACTGAATGCGCTCTGAAC
 GTGCGCGACGCGCGCAAGCTAAGCAAAACGCTGATAGTCAGGCATTCGCGGAACAGCG
 GCGCTCGTTTTTTCGAAGCAGCGCGGTAAAGCGTATAGCGCGCAGGCGCAAGGAG
 TGGCGCATCTGCGTCAACATCAAAACCGCTTTTCGCGCAGCGAGAAACATCATAC
 GGGCAAGGCGAGCATCAGGCGCAATGCTCGCGATAGCTGCTGCAACGACATCAGGT
 CCAGCCGCTACCGGACGAAAGAGCGCGCAATCACCGCGCGCGAGCGCAAGATAAC
 GTGACGACCCGCTCCGCGCGCGCAAGCGCGCGCGCAGCGGGTTGAGGAAATGGGCAAC
 TGGAAATCAGCGCGATACGCGCGATGAGATCAGGACGACGCTGCGCGCGTGTCTGCG
 CAARAAAGTTGAACCGGCAAGCGCGAGGAATCGATCGCTAAGCGCAAAAATACGCG
 TCGAAAGCGTGGGCTGATGATGATGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CGCGCAACCAAGATGATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 ACGCAAGGCG
 AGGATTCACAAATCGTGGGAAACACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 CAGCAGCGCACGCGTTTTCTGGGTTTTTGGCGGCGCGCGCGCGCGCGCGCGCGCGCG
 CAGCATTAAGCTGAGMAAATGACCGGATTGCCAAGTGTAGCAAAATTTGCGCAAAAG
 TCTGTGCAAGACTGCTTCAGACGGCATCAGACCAAAAGACCGCGCAACAAAAGACTG
 CACATGGCAGTCTTGCAGATACATCTTTTCAATATATTTTTCCTAGCGCAACAGAG
 TCCATACGTTTCAAACTGTTTTCACCGCGCTGATGCGCGCATCTCAATATA
 CAGCAACCAACACTCTGCTATATTTTCCAAAGTTTCTCAACAGAGGATCTGTTG
 CTAATTTTGGGCAAAAACCAAGAGATAAATCATGTAGCAAGGTTAAGTAAGGCA
 CTAATCAATTCGCTAAATTTAAGTATGTAATAATGGGCAAGACCAAAATTTGTCAG
 CACCAAACTTGCAAAAGTAATCATAGCGCTAGAAAATCAGGTTTATTATTTCTTCG
 GCAACCGCTTTTGGCAATAGCTCTCTCATCAGATCTCTCAAAACCAAACTTTGATG
 CTAGGAGAATTTGAATCAAGCGGACGAACTCAAACTCTCTTCTCTGGAATATTAATCTA
 AGAAGTCAAGTGGCAAAATTTTAAAGCGCTTGCACATACAGAGCTCAGAAATGTCTTA
 AATAGTCTTAACTCTTCTTGTGCGCAAAATAATCATTTGCAAT
 TAAGTAAGTCTAGCGGTCTCCGAGATACAGGTTTATGAAGTAACGACATTTTGAATCA
 TAAACATCTCATTAATAATATTTTAAATGATTTCAACATATAACCTTTGATGATGTC
 AACTTCAAACCGCTCAAAATATATGAGATTAACAAAACCAAGTACCGCGTTGCTCGCT
 TAGCTCAAGAGAACGATTTCTTAAGGTGCTGAAGCACAAGTGAATCGTTTCGTACTA
 TTTGATCTGCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 AGAAGTCAAGTGGCAAAATTTTAAAGCGCTTGCACATACAGAGCTCAGAAATGTCTTA
 CTTCGCAAAAGCG
 CGCGCGCGGTGATCAACGATTTTTCGCGTCCGCGTATAGAACCGGTGCGCAGCGAGCA
 AACCTCGATTTGAAGTTTCTTTTCATCGCGGATTGTTGTTGGAATTTGTTGCGCGA

Appendix A

-457-

AGACGAGGTAACTGGTACTCGTGGTAGTTCGGGTGAATACCTTTGTTTCATTGATTTCG
 TTTCAAAARAAGCGGGCATAGGGGATGTACCTATGCTACAGCAAGTCCGACATTCTCGCT
 ATTTCTGTTGTGTACGTCAAGAGTATATTCGATAAAATGTATAGTGAATTAACAAAAACC
 AGTACAGCGTTGGCTCGCCTTGGCGTACTACTGTACTGTCTGGCGCTTCGTTGCCCTTGT
 CCTAATTTTGTGTAATCCACTATAAAAAGTCTTTTGAAGGAGGTTTGTAGGGATCAAAA
 TCTTTTTTCTGCTGGTGGGTTTTCGGCGTTCGGGGTTCGCGCGTCACATATGCGCGGGC
 ATCGGATCTGTGACAGCGGGCGGCTTTTTCGCGCGGGCGGTTTCTCGCAATG
 GGACGCGGGGTCAATATCGAAGCGGGGGGTATGTGTTTCGGATGAGTTTTCGGCGAC
 GGCTCGGGCATCGGGCAAACTGTGAAATCTGCCGTGGGCTGGTGGTGGCAAAAATGTG
 ATGATGGAGCGGAATGTCTGTTTATCAAAATACCAAAAGTTTGAACGTTCAAAAAC
 GCTTTGAGGGCTTACAGGAAATCGTCCGATACCTTGGAGGACGATGTCTGGCGGGGGC
 ACAGGGTGATTGTAATGGCGGGCGTAAACCTCGGACGCGTTCGGTCGTGGGCGACGGC
 GTTGGTTACAAAGACATTCGCCCTACTCTTTGGCGCAGGCAATCCGAGATGTGTGAA
 AAGAAATCTGCGCAAGTGTGAATCGCTGTGACGTCGTGGCGGCGTGTGCAAAA
 ACAGGAACATCGTTCTGTTTTCGCGCTACAGACGCAATGCTATTCGCGCAGCGGTA
 TCGATTCTTGGTAGATTTCGCAAACTGGGTTTCGCGACGTAGGTTTGAAGGATTTCG
 CCTTTTTGCGGATAGGACGGAATCGGATAAACCTGTGTGCGCAACGCTGTGCGACA
 GCTTTGCGCATCATACATGACGATAACGGCAACCGTAGTCTTTGACATATTGGCGG
 ACGCTTTCATCGGATCGATGGGCTGGGCGACGCAAGTACTTGGAAAGTTTGTGTTTA
 TAGTCATTTCGCGTTTAAATGATTTCGGGCTTTTCGCTCACACAACCGCAGCAGGAGGA
 AATCAAAATTAATCAAGTGTACTTTCGCTTCAGCTTCGGTTCGGAAGAGTTTTCGG
 TCGAGTCTGCGGAGGAGAGGCGCGCGCGGCTTTGCTGTGCGGATGAGGCGAGGGA
 AGGAGGATGCGCATGAGTCCGACGACGCGCGGCGTGAGTATTTTTTCATTCCGCAAGG
 CTTCCAATGCGCGGCGCAGGCTGGCGGCGAGGTGACGTCGCTTGTGTGGCGCGTGGA
 CGGGCATCAGGGTGATGTGGGCTTCTCGCGCGGTTTTCGCGTTTCGCAAGTGTAACTCGTCT
 GGGTCAGCAATAACGCGCGGTGGCGGGGTTTTCAGCGCGCATGAAATCGCAATACGT
 CGCCTTCGACGCGCGCGCGGCTGTATCGGATGTGATGCGGGCGACAAATCAGTATGAGCG
 TGTCCACATCTGTGAGCAGTCCGCTTCTTCAAAAAGCGCCAGCGGCTTCTTCGAAAT
 ATTTCGATGACGCGCGCGGCGCGGCGGAGTGTGATGAGTGTATTCGCAAGTTCGCAAG
 TCACTTTCATCACTTCAGTGTGATGGCTTGAAGGCTTCGCGCGCAACGGTTCGTGTTC
 GAGGTGCGTGATGACGTAGAAAGCTGATGTCGAACCATTCGTTGAAATGTGCGCATC
 GAGCGCAGGCATCTCGCTTGTCTTCGACAGTCCGCAAGTTTCGCGCGGCAAAATGTC
 TTCAAAACGGGCTTCGATTTCGTCCATACTTCGTGGCGGTTTCGCAAGGCGCAAGAG
 TAGGAATTTGGCGTTCGGTTGTGATGCTTCAAGAGTCAGTCCGTGAGGTGTTTCGCGCGG
 CAGGGTTTTCGAGCAGTTCCAAAAAGTCTTCAAGAGTGAAGCAGCATACGCTTCGCGTT
 GATCTCTCATATGATGCGGCTTTCGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
 CCAATCTCGGTTTCGCACTCGCGTTCGCAAGAGGAGTCCGCTCGCAACCGGATTCG
 TTCAGCGCATGGCTTTAAGTTTGTGTTCCAGTTTCGCTTCGCGTTCGCCCTGCTGCTT
 CTGCGTGTGTTTCGGATACGGAATCTTCTTGAAGCGCAGTTTCGCGCGCGCGGTTTCGG
 CACTTTCGACCAATTCGTGATGTGATGTTTATCTTCGCTACCTTCGCAAGGTTTCGAC
 CGCTTCGCGCGCACGGACTTTCATATAGAGGTGCGCGGTGTAGCTGATTTTGTGATGCG
 CGGCTTCGTCCAGCTGTTCGGTCAATCGAGCAGGCTTCGCGCGTATCGCGCGGAGTA
 CGCATGCTGCGCCACGCTCCGACAGGCTCGGACAGCATATTCCTTCGGCGATACG
 CGGAGTAAATACCGTCCGACGCGCTTCGCGACGCTGGAAGGCTTAAGACCGGCAACA
 CGAAATAATTCGCTTTTTCATCCGACGAGGCAAGCTGTGCGCAAGGTGTTTTAT
 TGTGCGGAATCGCGCGCGCGCGCGGATGTCGATAAGCGCGCCCAACCGGAAAGTGGTGT
 TGATGCGCAGCGGACAGGTTCTTCGCTTCGCGGTTTGTATGTCGAAGCGCAAGATATTC
 TGCGCAAGCTGACCACTCGCACAGGTTGTTAAAAAATTCGACACGCGCGCGCGCACGG
 GTTTCGCGCGCACTTTTCGGTACGCGCGCGCGCGCGGCGGAAATGAGCGTTCGCGTT
 GGTGCTGAATTTGAAACCGCGCGGTTGATGCTTTCATATAGGTTTCGCGCGCGGTTT
 CGGCAATTCGAGGCGCGACGCAAGTTCGATGAGTTCGCAAGGAGTATAGGCGGTTT
 TCGATATTCGACCGCTTTGATTTCTGACAGTTCGCAAGCGCGCACGAGTTCGCGG
 AATGCGGCTGACGCTGACGCTGCTTTCGACCGCGCACGACTTCGACGACGAGCGACAC
 CAGGCGGGAATCGCGCGCTCCGACGCGCTCAAAATCAACCGCGAGGTTGTTTCGACG
 ACATTCGTGTGAGCGGGTAAAGCGCGCGCGGTCAGGTTTTCGCGGTGATGTGCGC
 CGCGATGTCGAATATTCGTTTTCGTTTGTGATGTCGATACGCTTTCGCGGAAACCA
 TACCGGCTCGGACGATGTTGTTGCTGCTTATTCGCGCGGTTTTTGGCTTTCGAATCTG
 CATACGTCGTTCGACGCTTTCGTTGTAATATTCGCAAGTTCGCGGATGTCGACAG
 TACACAGGCTCGCGCTTCGATGCGCGGCTGTAGTACGCTATTCGACCGCTTTTGG
 TAGGTGATGAGTCCATGTTTCGCGGCTTTTTCGCGGGTAGCGGACTTCGCGCGGACG
 ATGATTTCTTTCGCGCTTATTCGACATGGGATGCTTTCGAGCTGACGTTTCGCGTTT
 TTTAATTTGACATCGTCCGGAATAGTGGCGATCAGCAGGTTTGAATTCCTTTGGCC
 AACGCTGTTTTCGCGCTCGACGCGGTCGCGCGGAGGTTTCGCGCGCAATCGCGGTC
 ATACGTTGGAATCGAAATAGGACGATCGATAGCTTCGCGTTTTCGCGCGGCGGTTGTC
 GCAATCGGTTTTCGCGCTCAATCTGAGTGGCTTTTTCGCGGATTTGGTTACG
 GCTCGCGCGCGCGCAATGCAATGCGGATGCTCAAAATACCGATCGCAATGCGGCTG
 ATGAGGAGGAGTTTTTCATGATTAAGTCTCTACTTTGAATATGATGCACTACGTTTAT
 TCGCGGCTTTTTCGCAATTCGCGCGCTCGGCACTTTTTCGCGCAAACTCGTCATGAAT
 TTCGCGATAAGTTTTTCGAACCATTCGACAGTTCGACGAGATGTTGTCGCGCGCA
 GCAAGGTTTTTCGCTGTGCGCGCGCTGCTGCGCGCATGTATGCTGCGCGCAAAAGTCCC
 GAAGTCAGGATTTTCGCGGAAACGTCGCTGCTGACGATGATCTTTCGCTTCAAAATCGAGG
 CACCTTCGCGGATGCTGCTGCGGATGCTGCTGACGAGTTCGCGCGCGGCGCGGCAAT
 ACGCTTCGCGATTTTCGCGCGGCTGACCTTCAAGCGCGGATGCGCGGCAAAAGCGGA
 TAAACGCGCTAAGTTTTTCGCGACGCGGCAACGCGCGCGCGCGCGCGCGCGGCAAGCG
 AGAAGGCAACCGCGCGCGCGCAATCAGGACGACAGTTCGACCAAAATTCGAATG

Appendix A

-458-

TTTCTTTTTCATTAAAGTTCCTGGAATATCGATGTTCCGGCGTTTCGTCTTCAGACGGCGT
 GTCAATCTGTAAACATCCACGGCGTCAATATAAATCGACCGCAAAATCGTCAGGCGGG
 ACGAAACCAACGCTGGCGGTCTGGCGCGCAAAATGGCTTCGGAAGTCGGGACGCAATGGA
 AGCCCTGATGCACGGCAATCAGCGTTACCGCCACGCGAACCGCGCGGATTTGATCAGAC
 CGTTGATTACATCGTAATGATCTGTGATGTTTCTTCGATTTCGGACACGAAATACCGC
 TGTCAAGCCGACGAGCTTACACCAACCAAAATACGACCGCAAAATGCCCGCACGCTTGA
 AATCGAAGCGCAAAAGCGCATCGAAAGCGCGCGCAAAAGCGCGCGCACACGCG
 GGGCGACAGCTTTCGCGATACATTCGATCGCTTCGAGCGATCGCTGTTTTCATCA
 GACGATTTCCGCTGCTATCGCACCGCGCGCGCTGCTGGCAACAAATCGCTGCCAATA
 CCGGACCCAGCTCGCGCAATAGCGAAGCGCGGACCATATAGCCCAAAATTCGCGGATT
 TGAATTCGCACACTGCGTATAGCCGTTAAACCAACGACCATGCCGACAAACAGCCCGG
 AAACCGGCAACATCAACACCGCAGCAGCACACGGCGAATACACTTGGCGACGCTCAGGC
 CGCGAGCGACAGAAAGCGTACCGGACTTCGCCAGATGTTTCAGCAGAAACAGCGTGATAC
 TCGCGGGGATTAATAGAGCGCGAGGTTTTCGCCCGCAGCGAAGCGATAGAGTTTATAA
 ATTTCATATGTAAAGTTCAACGTTTCGACGCGATCAACTATTATTTCACACAGGCT
 CTGCTGCAACGACGTTTGGCGCGATTAACGGTATGCTACGGGCGGCTTCGACGCGCGCC
 GACAACCTGGGCGACCCAGGCGAATCCAGTTTCGGGCAATTCCTGGCGGACCGGAGAA
 CATATTTTCGCGCTGGCGCAAGAAATCACCTGATCAGCATTTCGAAGATTTTTCAT
 GTCTGCGCTTACCATATACTGCTGCAGCGCAAGCTGTTGTACGCGCGCTGATCAAGTG
 GGCATACCGCCCAAGGAATCGATTCGAGCGCGGTAAACGGCTCGTGACACATAAT
 TTCAGGCTCGAGCGCAATCTGTCGGGCAAGCGCGCGCGCGGACATCCCGCGGACAA
 CTCGAGCGCATCAGGTTTCCACCGCGACACCGGCTTCATTTCAACAAAC
 CAATCCGCAATCACCGCTTCGCGGAGCGCGCTCAGTTCCGCGCATCGAAAGCGATATT
 GTCGAATACCGACAATCAGTAACAGCGCGCGCTTGGAAACATAGCCCATAGCGGCG
 GCGGTGTCATACAACTCTGACGCGAAAGCGCGCGCAATCCGCTTCATACAAAC
 CTGCGCGGACTCGGCGAGCATCTGCTGTAAATCAGTCAGATCAGCGTGGTTTTCGCGCT
 GCCGACCGCCCATTCAGCGCAGAAATTCGCTTGGCGAATGCTGAATTTGATGTTCTT
 CAGATTCGGCGCGCTGCATACGCGAAGCGGACGCTTTCATTTCGATAAAGGGGATGG
 GCTCATGTACGAGCGGCGGTGAGTGTGAGCGCTGATTTTGAAGGCTTATCGGAGAG
 GGGCAATTTTCAAGCGACGCGGAGCGTAATGTTTGAAGGCTTCTGCGCGCG
 GATGTTTTCGCTGGCGCAAAATGTTATCTTCAAAAGTAACCTTATCAGAAACTAT
 GGAAAGACGAGACATTTGAACAGCAGCGGTTGCTGATCTAGTCAAAAGCGCGCGCGG
 CAGCTATGTGAAGGCGAGCTACCGTTTCGATACCTTTCGCAACGGCATTCATCCACGGS
 CGGCACGATACGGCAGCGTGATTTTGCACGACGCGCTCGCGCACTTATGTGTCTC
 GTTCGTGCTCTGTGCGAAGCGAGTTTGGACTTCGCGATCAACCGCTCGCGCTTCCAAAT
 CGATCGGCGCGCGGCAAGATTTGCTCTAATTTCTGTGTGGGAGGAAGTCTCTGTTACGGC
 CTATCTTTACGCGTAAACGAGTCAAAAGCTGAGCGTGAACAGTCT
 GCTCGCTCGGAATACCGCGTTTCGCAACCCCTCTTACCGCAACGCGTCAAGATG
 GATTTGCCCGCGAACCCTGCGCGCTTGGCGCATCTCGCTGAAAGCGCTCCCAAGGG
 GCAITTTGGCGCAACATTTCGCGCGCGAGCGGACGTGTCGCGCTGCTGTGCACTTGTG
 GGACACGCTTTCAGACGGCATCGGCGCGCGCGCGGCGCAACGGCGAGCGAGCGCTAT
 GCGCTCTGAAGACTTCAGCGCGACCTTAATGCGCGCTTTCGCGACGCGCGCACCAAGT
 CACCGGCTGACGAGCGCTGACATCAGTGAAGAGCGCTGCAACGCGCTATGCGGCA
 CCATTTGCGGCTTACGCAAGCGATTCGCTGCGCTTACGCAACCAAGTCGACGCGCGCTA
 TCTGTTGCAAAAGCGGCGAAAGATAGCGGAACGCTATTTATGCGCATTCGCGCA
 CGTTTCCAGCTTTACTCAGGCAATTCAGCAATATTTCGCGACGCGCTCGGGAACCAA
 AAAGAAACCGGTAGCGCGCATTTGATTTCAAACCGAAATCGCGCTGATAGTGGATT
 AACAAACCCAGTACGGCGTTGCTGCGCTTACGCAAGAGACGATTTCTTAAGTGC
 TCAAGCACCAAGTGAATCGTTTCGCTACTATTGTTACTGTCTCGGCTTCGCGCTTGT
 CCGTATTTTGTATCCATATAAAAGCTGTACGCGCAATTTATTTGGGAATAACTA
 AATCACTATATAAACAAGTGAACAGCGCAATCGGCAATGGCCATGATCA
 ACGGAGCTTTGAAGGATTTCAACGCGCAATGGCGGACGATTTAGGAAACCTCCACG
 AAGAGGCCATCGCCCGCAACCGCAAGCGCGCAAGCGGACCTTGACCGCGCGCTCGCGG
 CGCGCGCTGCGGCGCAACCGCTTGGAGCGCTTCGCTCGCGTGAACGCGCGCGCGATT
 TGCCTAAATTCGCCAAGGCAATACGCGACGTCGCGCAGCTGACGACACCATCTGTG
 CGAAGCGCGGCAAAACCAAGACTTGGCAGCGCTGGAAGTCATGTTCAACCGCATATC
 TCGATTATCAGGCGGAATGGCGCGCGCTACGAAAGCGGAATCATCCAAAGCGACCGCG
 CGCGGAAATATTTATTTGTTCAACGTCGCTTCGGCGTAATGGCGGCTTTGCGCT
 GGAATTCCTCTCTGCGCAAAATGAGCGCAATTTGCGGAGCTTTGGTAAGCGGCA
 CCATCTCTCTCAAAACGAGCAGCTAACCCGATCACTGCGCACATCTTCGCGGAATGCG
 TCGATCGGCTGGACTGCGCGCGAGCGGTGTTCAACGCTGTGAACGCTTCGCGCGCGGAA
 TCGGCAATGCGCTTGTGCGCCATTCGCGAAGTGCATATGTTGACGCTGACCGCTCCGTCG
 AAGCAGGCGCGCAAGTGTGAAGAGCGCTTCGCGCAACATCAACAAATTTTCGCTGGAAC
 TCGCGCGCAAGCGCTGCCATCTGTTTGAAGAGTGGGATTTGGACTTCGCGGTGGAAT
 CATCTTCGGCTTCGCGCTGCGCAACCGCTCAATTCGCACTGCGCGCGCGGCTCT
 ATGTCACACGACGCAAGAGCGATTCATTAAGAAAGTGAACGCGCGGAGTAAGAGG
 TCGCTACGCAACCTTCGCGAGCGCAAGCAGCGCGCTGGAATGGCGCGCTGATG
 AAGACGCGCGCTCAAAGCGCTTCGCAAAAGTGAACGGGCACTCAACAGAGTGGGA
 AATGTTTTCGCGCGCAACCGCGCGAGGACGGGCTATTCTTCGAGCGCGACCTGCG
 TGACCGCACCGGACACAGTATGGAATATTAAGAAAGAAACCTTCGCGCGCTGCTGCG
 CGAATTCGCTCTTCGACAGCGCTGACAGTATCGCTTTCGCGCAACGATTCGAGTTG
 GCTGACAGCTTCTGTTATACAGCTTAATAAGAGGCTTCTACGTACCGCGCGAC
 TCGAATTCGCGCGCAACCGCGCAATTCGAGAGCTTTCAGAGCTTTCGAGCTTCACG
 CGCTTGAAGAAATCCGCTATCGCGCGCGGAGCGCAACCGGTTTGGGGAATATG
 TCGAAACCAAGCTGTTTATTTGGAAGCCGATTTAATGCGCGCTTTAAACCCCGATG

Appendix A

-459-

AAAATGCCGTCTGAAACCGGCTTTTCAGGTTACAGAGGCAATTTTATTGGCTTCAACGGCAAT
 CAGTCATGACCGAGGTGATGTTTGTCTTTGTATAGTGATTAAACAAAATCAGGACA
 AGCGGGGAGCGACGACAGTACAAATAGTACGGAAACGATTCACTCGGTCTTCAGCA
 CCTTAGAGAAATCGTCTCTCTCGAGCTAAGGCGAGGCAACGCTGACTGTTGTTGTAAAT
 CCGCTATATTTCGCGCATCTCTAAGATTTCAGCGGATACACGGGTAATTTAAGAAATGCCG
 AAACCGGTCTTCCCGCACCTTTTCGATCTCCGCGAAGCGGGAAATCTAGATGTTTCGGGA
 CTTCAGATATCTGATAGTTGTTGTTCTTAAAGCTGATGATCCCGCTGCGGG
 AATGCAAAATCCATCCGACCGAAACCTGCACACGCTCATTCOCAGAACCCACATCCGCG
 TCATTCCCGCGAGGTGGGAATCTAGAAATAAAAGCAACAGCAATTTATCGGAAATAAC
 TGAACCGGAACAGACTAGATTCCCGGCTGCGCGGAATGACGCGTCAGATGCCGAGG
 GTCTTTATAGCGGATTAAACAAAATCAGGCAAGCGGACGAGCGCGAGCAGTACAGAT
 AGTACGGAAACCGATTCACTGTTTAAAGATCGTCTGTTTGAAGTGAAGCGAGGCAACGCG
 CGTACTGGTTTGTTCATCCGACATAAATTAAGTGGAAATCAAAATTAAGTAGGAATTATCC
 CTATGCAAAAGAGCTGTTGAAGCGGTATAACAAAATTAACCTATGATGATGTTTGTGTC
 AAACTCAAAATTCGATTATGCGGCGGCGGAGGCGGCACTTCGCGCGGACTTCGAATGCA
 ACAACCCCTATAATAATTAATCAAAATATAAAATGGGTTACATCAAACTATACGGA
 ATTTTATTCCCTCGCGCTGAATTCATTGTGAGATTCAAGGAGACCTCATCATGCGAAG
 ACCCCAACTCTTCCCTACAAAATTTTCAACCGACTGCTATGCGGTAGTGTGTCACACA
 ACACTTCTGCTGCTTATGCGCGGCGGCGAGGCGGCACTTCGCGCGGACTTCGAATGCA
 GCGGCTACCGGTATCGGCAACGACGAGGCAACACAGCGGAAATCAGCAGCATGATTAT
 TACCGCGGTATCAAGACGAAATGTGCAAGACAGAGCAATGCTCTGCGCGGTGCGGAT
 GACCTTCCGTTTATGAGCGAGGATGCAAAATCAATGCTGCGCGCGGCACTGCTACAC
 GGAACCTTTCCAAACCAATAGCAGCATACAAGAAATTTGATCAACCTCAAACTCGCAAT
 GAAAGGCTATACAGGACGCGGGGTAGAGTAGGTTATGTCGACAGCGGGAATCCGCT
 GCGAGCATATCTTCCCGGAATGTTATGCGAAGAAAGAACACGGCTATAACGAAATTAAC
 AAAAATATACGGCGTATATGCGGAAGGAGCGGCTGAAGACGGAGCGGTAAAGACATT
 GAAGCTCTTCTCGACGATGAGCGGCTTTATGAGAGCTGAAGCAAGCGGACGGATATCCGCG
 CAGCTAAAGAAATGAGCAGCATGATTGGCTTCCCATTTTATGAAAGAGCGCTAAAAGGCAAT
 GACGCGACGCTATGAGCGAGGATGCAAAATCAATGCTGCGCGCGGCACTGATGATACAG
 GATGAACACAGACGAAATAGTGTGCGAGCATCCGAATGATGGTGAAGTGGCG
 GAACGTGGCGTGCATGCTCAATACAGTTTGGAAACACATCGAGGGCGAGCACTGCC
 GACCTTTTCCAAATGCCAATTTCGAGGAGCAGTACCGCGAAGCGTGTGCTGCAATTATCC
 GCGCGGTATAAAGACGAGCAGGGGTATCCGCTGATGCAACAGAGCATTAACGCAACCTG
 TCTCATACCACTCGTAATAAAACATGCTTTTCACTCTTCGACAGGCAATGACGCAACA
 GCTTCAGCGCAACACATATGCCCTATTGCGCAATTTATGAAGAAAGCGCTAAAAGGCAAT
 ATGACAGTTCAGCGTGAAGCGGCTGATGCAAGGAAATGATGAGGAAATGTTGGAAAT
 CTGGGTACAGAACTGTTGAGTAGTGGTCAACCATTCGCGGATTAAGCTGCTGGTGGT
 CTGTGCGCACCTATGAACGAGCGTCCGTTTACCCTGACAAACCGGATTCGAATGGC
 GGAACATCTCTTCCGACCCATGCTAACCGGACGCGCGGCTCTGCTGCTCGAATAATAC
 CCGTGGATGAGCAGCAGCAACCTGCTGCTACACGTTGCTGACGACGGCTACGACATCGGT
 GCACTCGCGGTGACAGCAAGTTCCGCTGGGGACGCTGATGCGGTTAAGGCCATGAAC
 GACCCCGGTCCTTCCGTTGCGCGGCTTACCGCGGATACGAAAGTACATCCGATATT
 GCTTACTCTCTCGTACGACATTTCAAGCGCGGCGGCTGATCAAAAGGCGGCGAGC
 CACTGCACTGCAAGCGACACACCTATACGGGTAACCAATTTGCGAAGGCGGTGCG
 CTGGTGTGTACGGCAACAACTCGGATTCGCGCTCGAAGCGCAAGTGGCTGATTT
 TATAACGGGCGGCACTCGGCGGCGGCTGAACAGCAGCGCATTTGCTATCTCGGCGAT
 ACCGACCAATCCGCGCAACGAACCGTACACATCAAGGCACTTTCAGCTGGACGGC
 AAAGTACCGTACACACSTTTGGGCAACTGCTGAAGTGGACGATACGCGATTATC
 GCGCGAAGCTGTACATGTCGCGACGCGCAAGGGGCGAGGCTATCTCAACAGTACCGGA
 CGAGTGTCTCCCTCTGAGTGGCGCAAAATCGGCGAGATTTATCTTTCTCACAAC
 ATCGAAACCGAGCGGCTGCTGCTGCTGCTGCGAGCGCTGCAAAACGAGCGGAC
 GAAGCGCAGACGCTGCTTATTGTGCTGCGCGCAATGCGCAGCGGATCTCTCGCA
 CGCGCACATTCGCGCGCGCGGCTGAAACACGCGCTAGAACAGGCGGCGCAACATCTG
 GAAACCTGATGTTGCACTGATGCTGCTCGCAATCTCCGCAACACCGGAGACGTTGAA
 ACTGCGCGACGCGACGACAGATATGCGGGGCTACGCGCTTACGGCGCAACTTCGCG
 GCACGCGCGCTGACAGCATGCGGAATGCGCGCGAGCGGTACGCACTTCAACAGTCTC
 GCGCTGACGCTATGCGCGCAGTACGCGCGCTGTCGATGATGACAGGAGCGCGGCTG
 CAGAGCTATGCGCGGCTGCAAGCGGCTGCGCGGCTGCGCGGCTGCAAGAGTACGCTG
 CACAGCAGCGGCTGCAAGCGGCAACAGGCGGCTTGAAGCAAAATCGGCGCAATCC
 CAAACCTCGGCAATTCGCGCGAAGACGCGCAAAATACGACAGCAGCGCCACACTGGCG
 ATGGGACGACAGCATGAGGCGAAGACAGTGCANATGCAAAACACCGAGACGTTGAA
 TTTGAGGCTATACGGCAGTACGCGGCGGATTCGCTTCTCAAAAGCGCTGTTCTCTTAC
 GAGCGTACAAAACAGCATCAGCGCGACGACCGGTGCGGACGAACATCGGAAGGACG
 CTCACGCGACGCTGATGACGCTGGCGGCTGCGGCGGTGCAACGCTCTGTTTGGCGCA
 ACAGAGATTTCAGCGCTGAAGCGGCTGCGCGGCTGCGCGGCTGCAAGAGATGCTGTT
 GCGCAAAACGAGTGTGTTGGCTGCGGCGGCGGACAGCGCTTCTGAGGCGACGCTGCT
 GAGCTCGCGGCTGAGAGCTGCTGCAACCTTGAAGCAATAAGCGCTGCTTTCGCAAG
 CGCGGCTGAGACGCGACTGACGAGGACGCACTACAGTGAACGGCGGCTTACGCGG
 GCGACTGCAACACCGGCAAGCGGGGCGACGCAATATGCGCGCACACCGCTGCTGTTGCC
 GGCTGGGCGCGGATGCGAATTCGCGAACGCGCTGAACCGGCTTGGACGTTGACAGTAC
 GCGGCTTCCAAACAGTACGAGCAACGAGCGGAGTGGCGGTAGCTAGCTGATCGGTTGGA
 CGGACGAAGACAGCAGCGCGCAACGCTACGGTCTTTCGGGCTTGTCTTATAGAGATTC
 AATCCATTTCTGCTGCTGCTGCTTATTGTTTGAAGCTTTCGAAGTGGCGAT
 AATCAGATTATGAGCATTAACAAAATCAGGCAAGCGGCGGAGCGCGGACAGTAC
 AATAGTACGAACGATTCACTCGGTGCTTACGACACTTGAAGAAATGCTTCTTTCGAG

Appendix A

-460-

CTAAGGCGAGGCAACGCCGTACTGGTTTTGTTAATCCGCTATATTCCACCATCTCTAAG
ATTTCACGGCATACACGGGTGATTTAGGAATGCCCGAACCGTCATTCCCGCCACTTTCC
GTCACTCCCGCGGAAGCGGAATCTAGAACTTCGGAGCTTCAGATAATCTTTGAATATTG
CTGTTGTTCTAAGGTCTAGATTCCCGGCTGCGCGGGATGAGCAATCCATCCGCACGGAA
ACCTGCACACGTCATTCCCAACGAACCCACATCCCGTCAATCCCAAGAAATGGGAATCT
AGAAATGAAAGCAACAGGCACTTTATCGGAATAACTGAAACCGACAGCATAGATTCGC
CGCTGCGCGGGAATGCGGATGCGAGATCCCGGAGGCTTTTATAGCGGAATTAACAAAT
CAGGACAAAGCGCGGACGACGATGACAGATACAGATATGCAAAACCGGATCTCGGCG
TTCAGCAGCTTAGAAGATCGTCTCTTCGAGCTAAGCGAGGCAACCGCTGTACTGGTFTT
TGTTAATCCACTATACTGGAGCTGGTCTGCTTTTCGCTTAATCTACGTTTTCAAAG
GTTGCAGCTGGTGGTCTGCCATAAAGGTCTCTTTATTTGTAATTCAGGTGGAAATCGGAA
TTTGTCTTCAAAATTTTACAACTTCGCCCGCGCTTTCTCATACATAAATACATTTTGGC
GATATTTCGCGAATTTGCTGAAATATGTATTAAGGGGGGTATATACAAACATTTTTCG
CCCGGAATTCGATCTGTTATTTCCGCTGTTTGACGATGCCGTAGCGGGCGGCCAAACG
GCTATCAAAATCATGTGGAAAGCGCTTTTCTCCCTCCGAGAACTCATGCTTTGGAGC
GCGCGCTGCATACGGGCTGGCAAAAGGCGTGATTCGGGTGTGTTCGAGACTACGGAT
TCGGTTTGGCGCTGACGGGGTTGAGTCCGAACGCGCGGCAATCTTGCCTTGCACTGGT
TTGCGCACTGGCGGACATCGATGCCGAAAGCTGGCTTCGCCGACACTCAGACGGCTCC
CGCGCGGCAATTTCCAGCGCGCAACCTCCGTATCCGAAACGGATACCTCGACCGCATCC
GCCAAATCCAGGAAGCATCCGGCGCGCGGACACTATCAATCAACTACACACACCGCC
TGCACCTGCAGAGCTACGGCAATCCGCTGACGCTTACCGCGGCTGCGCAGCGCGTCC
CCTATCCGTTTGTCCCAACTGCCGATCGCGAGGGCAATCCGGGTGGAGCTGTGTT
TCTCGCGCAACTCTTCTCAAAATCGGTTGGAGCGCAACCATCAGACGCAACCGATGA
AAGGCAACCGCGCGATTTTGGCGACGACAAGACGAACGCGCGCGCGCGAGTTGCAAG
CAGACCCGAAACCGCGCGGAAAGCTGATGATTGTGCTGTTGCTGCTGATACGATCTCG
GCAAAATCGCCAAACCGGACAGTATGCTACCGGACCGTTTAAAGATCGCGTTTTCG
CGACGGTTTGGCAGATGACGACACCATCCAAAGCCCAAGCTTCGCGCACACTCGTTTCG
CGGACATCTCTCGCGCGGCTCTCCCTCGCGGAGCATACCGGCGCGGCCCAAAAAATGA
GTATGCGAGATTAATGAATCGCTCGAGCGGAAGCGCGGACCTTTATATGGGAGCATCG
GCTATTGAAACCGTGGCGGCTTCGGGCTTGGAGCGCGCGCTGCTGCTGCTGCTGCTG
CGACCTTTCGCTCGCTACGCTCGCTCTCAGACGGCATTTATCAAGCGGTGACGCTGTGGT
CCGGCATCGTCTGACGACGCGACCGCGCGCGCAATATCGGAATCGGGTGGAAAGCGCC
GTTTCTCAACGATTAATGCGCGCGACTTCGGCATTTTGAACCGCTGCGCGCGGAAACG
GACGCTGCACCTGCTGACCGCGCACTATGCGCTTGAACACCTTCGCGCAAGCGCTCA
ACCTGCGCCCTGCGCGACGGCTGCGAAATCAATCAACAAATACATTGCGCACTTGGCG
ATGGCGGCTTCGGGCAAGGCTGCTGCGCTTCAGACGGCATACGCTGTGTCGGCGCG
TTTTAAACCGCTGCGACATGTTCAAAACGCGCTGCGCGCTGCGCGCTGCGCGCG
AAACATACCTTCGCGCGCTTCAAAACACCTGCGCGCGCTCTTCGACAGCGCTGGCAAA
CCGCGGAAACCAAGGCGCGCTGCGACGCTGTTTTCATTCAGACGGCATCTGCTGCTG
AAGCGCGGAGAGACGATCTCTCATCAAACTCGCGGACATGGCTCACACCTCTTTAG
ATTTAGACATTTTAAACGGCATATGCGCCAAAGCGGATTTGGACGAACCGCAAAATATT
TGCAAACAAATCAAGTAATCGAAACACACATCACACRAAAACACTGCAAGAGCGCAAG
AAATCGCGCTTCGCAAGCGCTTGGCGGGGTATTTCGCGCGCGCTTTCGCTGAGCGCGCA
AAATCGCGCTGCGACATGTTCAAAAGTTCGGAGGATTTTCGCGACATCAAAAGCG
CCAAATCGCGGACACAAACACCTGCTGTTGCGGGGTTTCGATACGGCATTACTTTC
CGTCTCGCGGAACGATAAATCAACGCGGACGATACCTTTGACGACAACTTGTGCTGT
GCTCAAGGCGCGGAGACATTTCATTTCGCGGTTGCGGCTCTGCGAGAAAGCGCG
AATGCGCTTATAGTTGCGCGGGCATAGACGCGGAACCGACTGTTCAACCGCGCAA
CTGCGCGCACTCTGCGGCCAAACCGGATAAACACCTTGGCGCGGTAGGCGGCTATTATT
GACCGCGCGCGCCACCGTTTCGCTTTTCGCGCAAAACCGCAAAATGCGCAGCGCGGAA
CACAGTTGCGGATTTTCGCGCAAGCTTTCGCGACAAATCAAAACCTGCTGCTGCTGCG
GATTTGTAATCGCTATGCTGCTGCGGAGCGGTGCGGATATGTTGCTGCGCGCGCA
CGAAATTCGATCCCGGTTTGGCGGTAAGTATGGGACAGTGCACGCGGACTTCGCTG
CGCGAGCATATACGCGGCGAGCGCGGCTGTTTTCGCGGTTTGTTCATTCGATCAAAAGC
GTGCTGCGCGGACCACTGCACTGATAAACGCGAAATCCCGCGCTGCGCGTGAATT
TTTATCTGCGCAACCAAAATACGCGCTGCGGAACCGTCAATCAAGCTGATTTTACT
GGAATATAGCTGCTGCGCGCGATATTGGACGAGACAAATATGATTATCTGCGCA
CGGCGTCAAGTTTTCGCGCTGATTTCAATTCGCACTTCGCGCGCGCTGCGCGCGCTG
GACATGCTATTCGCTGCTGCTGCTGCGCGGCTTTCGCGCGGCTATTCGCGCGGCTATTCG
ATTTCTATTCGACGCGGCACTGATGCGCGCGCAAAACCGCGCGCTGCGCGCTGCGCT
TTTTTTTCGAAACGCGCCCACTTTTCAAAACCGGTGCGCGCAATTCAAATTTTCGCG
CTCCGCAAAATGCGCTTCTGCGGACTTCAGCGGGAATCGTCAAACTCCGCGCGCGCCAA
ATCCAGCAAAATCGCTGCTGCTGCGGACTTTTCCCGCTGCAGTTCCGATACCGCGCCAC
CGCTCTCCCGCGCTTCCGCGCAATTTTCGACGAGAACCGCGCGCTGCGGCTACAAAC
CGCTCTAATATTCGCGAGCTTGGAGTCAAAATTCGCGCACGAGAGCATTAATCGCGCTG
ATTGCGGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
ATCCCGCTCAACACGCGCGGCGGACATTTTCAACTTCTCAATCGATTTCGCGCACTT
ATCCGACACGACCGCTGCACTGCAACAATGCGCTTGTATCCAAATTCGCGGCGCATC
CGCCCATAGCGCGGCAAAACACCTGCGCGACACCAAAACCAAAAGCGCGTATCGAA
ATACAAACATCCCTGTCATTACTTTCTGGCAACACGCGCGCGAAGACGTCAAACCA
TCCGAAACACGCGAGAAACCGGTGAAACCGCGCTTTCGCGGCTCGAAGCGACGCAACAA
ACCAACCGCGCGGATTTTCAAGAGCGGATTTCAACTATTAGTGGATTACAAAAATCA
GGCAAGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
AGCACTTAGAGAACTGTTCTTTAGGCTGAGGCGAGGAGGAGGAGGAGGAGGAGGAGGAG
TAATCACTATAACAGCAACCTGTGCGCGCTATTCGCGCAAAAGCGGGAATGACGAGC

Appendix A

-461-

TATCCGCACAGAACTCGCACCGTCATTCCACGAAAGTGGGAATCCAGAACGTAAAA
 TCTGAAGAAJACCGTTTATCCGATACGTTTCCGACGACGACCTAGATTCCCGCTTTC
 CGGGGAATACGCGCGAAAGGTTGCTGTTTTCCGATAAATCTCTCGCGCTCTTCGTTTT
 TGGGATGGCGGGAATAAACAACAAAGCGCGCTATCAAAAAAAMAAATGCAAGAACCG
 CGTTGGCAATTTTAGGTTTGGCGCTTAGCGCACTTATTCGCAAAAAAACCGACGGC
 GTTGACCGTGGCGTTTTATCTCAAAAGCTCAGACGGCATTTGTTACATATCGCGCGC
 ATACACCCATCGACCGCATACAGCGACGCGGTTTGCTCGGGATCTTCAGCATC
 ATGCATCATGCTGCTACAGTCAAAAGCGGACGATAGATCGCGGCTGTTCGACGCGAACG
 GTTACTTTGGCGGGGTGAGTACGCCATCTTCATCATATCGCGGTATTGTCGCGCTGCA
 CGGTTGTAAACGCTAGTTGCTTTTGGCTTCCAATATTTGTTCACAAACACGCTGGGTTG
 CGCGCTGCGTTGGCAACGATTTGGCGAGCGGAGACTCAACGGCGCGCAAGCGATTGT
 ACGCGCTGCTGTTGGTCGGCATTTGCGGCTGTGAGGTTTTCCAAAGCAGACGCGCAACG
 AACGGGTCACGCGCGCGCTCGCAACACGCTTCTTCACGCGCTCGCGGGTAGCGTTC
 AGCGGCTTTCACGCGGCTTTTCTCTTTTACGCTTCGACTTCGCTGGTGGCGGCGACT
 TGTATCGCTGCGACGCGCTGGCAATTTAGCAGCGGCTTTCAGTTTCTTTCTTTGTCG
 TAATCGCTGCTGCGGTTTCGATTGTTGGCGGATTTCGGCACACGCGCTTCGATTGCG
 GCTGCGTGCACAAAGCGCTGATGATGGTGGTTTTCTTTACCGATTTCGATGCGTTG
 GCTTGACCAAGCTGTCCAAAGTCGCTTTTCCAAAGACAGACCGACTTCTTGGAAATC
 ACCACGCGCGCGCTCAGGATGCGATGCTTGCACATCGCTTTGCGCGGTCGCGAAG
 CACGGGGTTTCAGCGCAACGTTTTTCAGGATGCTCGGATGTTGTTTCAGACCAAACTG
 CGCAAGGCTTCGCGCTTCACGCTTTCACGCAATACACAGCTGGCGGCTTTGCC
 ACTTGTTCAAAGACGACGACGCTGCGGATGTGCTGATTTTTTCGCAACCAAT
 ACAACGAGTTGCTCAAAGCAGGATTTGTTTTCCGCACTGTTGATGAGTAAGGAGAC
 AGGTAGCGCGCGCTGCACTGCTACACTTCACTACGCTCGAGCTGTTTTCCAAAGACTTG
 CGGCTCTCAACGGTAATCACGCGCTTCTTGCCGACTTTTTCATCGTTTCGGCGATATC
 GCGCGCACTTGTCTGCTGGAGTTGGCGGAATAGAGCGCACTTGGCGGATTTCTTAGAA
 GTGTCGCAAGGTTTGGCGATGTTTTCTAGTCTGTCACCAAAAGCGGCGAGCGGTTATCG
 ATACCGGCTTTCAGTGGCTCGGATCATACACTCGGTAACATTTCTACCTCTTCGCGA
 ACGATGATTTGCGCAAGGATGCGGATGCGTACGCGGCTTCGCGACGCGGCTGTTG
 TTGACGCGAAGCTTTTCACTTTTCGCGGCAATTTCAAACCTGTCTTCAGTTCG
 ATTTCTTTTGGCGAGGTTACGCGCTTTTGCTGATGTCGCGCGCGCAATGCGCGGTC
 ACGACTACGTTGCGCACTTTGGGCGCAAGGTTACGCGGACGCGGTTTGGCAGAAATGTC
 ACGCGGTTTACCAATTTTTTACGCACTTCACTGCGCACTGTACGCTTTTGTGCGCAAT
 TCAATCTTCCAAAAATCATAAACCTGCTGATAAAACGTTTATGCGGCTTGAAGCGCG
 TTTGGCGTTTCAGAGCGATGTGTGCGGTAATTTATTTTTCAGAGATCGGCAAAATATCTT
 CTTCGCGCATTTACGCTTTCGCGGCTTTACGCTTTACGCTTTACGCTTTACGCTTTAC
 CGAAGTATTTTTCGCGCACTTTGACATCCAGCGGACGCGCGCTGCGCTTTACCGA
 TTTTGGCGCGCGCGCGCGGATGACTTGCCCATATGCGGTTTTTTCGCGCGCGCACCG
 GCAAAACGATGCGCGGATGCGGTTTTTTCTAGCTTCCAAGGTTTTCGACGCAACGCGGT
 CGTGTAAAGGACGGATGGTCAATTTATGCTCGGATAAATAGTTTGAACCAATCATCT
 GCGCGAACCGGTTGAGCGAGTTGAAGTGGAAACGCGACGCGCTCAAGCAGCTGCCCGTA
 TAACTGCGCAAAATTAAGGCTGTGGCGGTAATTCAGTGAAGCGGCAAAATTTATTT
 CGCGGTTTTTATATGGGATTAATTAAGGCGCTGACTCAATACCGATATTTAC
 CTTGCAATATGAAGATACGCACTGCAATTAAGAAAAAAGTACAGAAAGCACTCTC
 CGTTTTTTGATCGAAGTTACCGCGCTTCGCGCGCATTTTTTGGGTATCATCCCA
 ATTCGGCAGCACTGTTTACGCTAAATCCGACGCGTTATCAACCATTTAGCTTTGG
 CTGCGGATGAGGTTTTTGAAGGCGCTGTCGAGCGCGACGAAAGCATTTGCGCGGACGCG
 GTAAAGGTAGACTGTGTCGCGGTGACGCGAAGAAAGTGTTGCTTCGCGCATCTGAAAC
 GCAACGACGGGCTATACCGTTTGGTGGATGATGCGCAAGCTGCAAGCGGTACTTCGCTG
 TCATCAAGAAAGAAATACGCGACAGATTTGTTTATACGATATCTGACAGCTGCG
 ACAGTTGGACGCTGACGCTTTTATTTATCGCATCAACCATTCGAAGGAATTTGAC
 ACCGTCAGAACCAATTAACGGCATTAGAATTTTTGGAATACGGCAAAACGCTGCTGCG
 GAAAATACAAATGAATCGATGCTAAATCTTTCGCGCTGTTTGAAGAAGATGCGAATTC
 GATTAACTTTCGCAACCGCTCAACAGCTTAAATCTCGCGGATTTGGTGTGGGATTT
 AGGCGTAATCTAGTACAGCCCTAAATTTTCTCTTTCAAGCTTTCACGCTTGCACCT
 AGCGTTAAATTTTTTACGATAAGCAGATGATGTAACAAATCGGCGACAGCGCGGTTT
 GTTTTTTCAAGAACATATACCTGCTGAGCATTTCTATATATTTTCGCTATATAGG
 GTTTTTTAAATTTTAAAGCATATACAGGATTTACGCTTTCGCTTTCGCAAGCAGATAC
 CGCACATCTCGCGACGCGCGCGGCTTTATGATGCGCGCATTCGCGCTGCGCTGCGCT
 GGGCAATATTTGGCGTTTCCCTATATTTGCTTTGAAAGCGCGCGCGGCTTCATCT
 GCGCTATCTGCTGCGGCTTTCGACGCGCGGACCTCCGCTGCTGCTGCTGATTAAGCAT
 CGCGCACCGTTTACGTTGTTCTGCGCGCTTGGCTTTCGCGCGCTCGGACGATGTTTGA
 GCGGCTGCGCTGTTGGAACGTGATGACCAATATCGTCACTGCACTATTAACGCGGTAAT
 TATCGTTTGGGCGGACAGCTATACCTATTTTCGGTCAACGCGCGCTGGGTGCGGATTC
 CAGGTTTTTTTCAAGCATCTCGCATGCGCTTCTGCAATGCGCGCGGCAAGGCGTTG
 TTTTGGCGCAAACTCGCGCTCTTGGCGGCGGTGGGTTTTACCGCGCAATAT
 GCGCTTGGGCGTCAAAGGCGGTGGCGCGCGCTGCTGCTTTTACGCGCTGCTTTT
 GGTGATGTTTTTGAATATGGTCGCAATTCACCTAACCTCGCGGCTGGCGCAAGGCGTT
 GGACGCACTTTTACGCGCACTGCTGGAACCTGCGCATTCGAAGCTTGGGTGGCGGCG
 ATACGGCGAGATTTCTTTCTGCTTTCATCTGCTTGGCATTAGTTTACCTATTTCTTC
 TATTTTGAAGAAAAACAGCACTTGGGCGGAACGGGCTGGTGGTGGTTTTTGGCAACG
 CAGCTTTGAACGAAAGCTGCAATGCGCTTTCGCGCGATTTGGGCTTTTATGGGCAAG
 GCGGCTAAGCGGCTTCAAGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT
 TCCGACCAATATCAACACGCGACCGATGGGCTGCTGACGCGATTTCTTTTCGCTTC
 GCTGGTGTTCGCGCGGCTTACGTCGATGATTTCCATCTGCTGGAAGTATTGGGCGGAT

Appendix A

-462-

TCAGGCAAGCTGAACATCGGGCGGTCAACGCCACGGCTGTGCTTCGATTCCGATGGG
CATTTGTTTCCACCGTCTGTTTCGGTACGCGGACGGGGCTGCGGGTTTGGAGCGTATGGA
CAAAATTCGTCAACACCTACGGCATTTGTCGCCGGCGCTTTGTTTATGTTGCCGCCATCAT
CATCAGCGCGCAGGCTGCCGGAATTACGCAAGCACCTGAACGGTTTGTCTCATCCGCAT
CGGCGGGTTTGGGACGCTGCGGTCTGGTTACCGGTGTGATGCTCGGTATATGCTGTT
TAAGATACACAGCGGCTGATGAGAGAAATACGAAGGTATCCGAGATGGTTTCCCTCAG
TATTTCCGCTGGGATGCAATCGCGGCTGTGGTGGTGTGGGGCTGCTGCTGTTCTG
GCTTGGAAACAGCTGACGAGTTTCAACCTCAAGAAGCAAGACAGACATGAACAAGAGGA
AGAAAAATGATGACTTCCGCCATTGSGATGATGATTGTCTCAATCGTAATCTCGGGGA
GGGCTGTGCTTTCCGTTTAAAGGCTGCGCAAGCATGAGCTTTAGAGCGTTAAAAATG
CCGCTTGAACCGCTTCAGACGSCATTTTGATGTTTCGGCTTGACGGCAGGCGGATCGTT
GCCATTGCTGTCCAAAGGTTTCGCGCGCGGAGTAGCTGGTATTCGTTGCGGTCCGATCC
AACACCTCTGCGCGACGTTGCGCGGTTGTAATGCTGCTCATCTAGGCGCGATATGCG
CCGCGCTGCGGATGCAATGCAATTCCTCTTCGCAAGCATGCGTTCGCTTCGCGGCTTCG
AGGAATCGCGGTTTGCACAAATTCGACCGACGATGTTGGCGGTCAAGCTCGATGCTCT
TGTGTTTCGACCGCTCGATGTGATGATAGGCATCAAAAGCGCGGCGCATCAAAATCG
TTCATCGCGCGATCGACCATCAAAAGTTTTCCTCTCGCGGTATTGACAACTCGACG
CGTGTGACAGCGAACCTGCGTTGCGCGACAGGCTGCGCGCGGCTCAAGATGAGTTTC
AGACGCGCTGCGCGATCAGTTTTCGAACGGCTTGGCATACGCGGCCAAATCAGGACGA
TTTTCTGCTTGTGTAAACGATCGCGACCGCGCGCTTAAGTCTAAATGTTCCAAACAATG
CCTTCGGCGGAGCGGCTCAACCAAAATGCAAAATGCTGCTCGCGGCTTCGACGCGGCT
TTAAATCGTCTGTTTCGCAACGATGTGGCAGTGTGGCAGTTCGTAATGTTGAGG
TGTGTGCGGCACTAGTGTGATGCTTCGACGCGCTGCGCGGTAGCGATGCGGAATTTGTG
GCTTTCAGACCTTGGGAGATGTAGGATGGGTTTTCGATCGACATCGGGTTGATGCGC
AGGGAGACGGCGCGGTTTTTACCACAACTGCGGCACTTTCTGAATACGGTCTGATTTTC
GGGATGCTTTCCATATTGAAGCATTTACGCGCTGCACTTACGCGCGAATCGATTTCGCGC
TCTGCTTTCGCTACGCTCAAAATATGTTTTCGCGCGTTCGCGCGCTTCGCGCAAAAGCS
CGTGCATCTTCGCGCGGACGACATTCGCAAAACGCGCTGCGCGGAGGCGGAAGTTGTTG
ATATGCTCAAGATGATGCAAGACGAGTTCGCGCGGTAAACAGGCGCTTCGCGCGCTTCG
AACGCGTTTGTGATGTTTCAAACTGCTGCGTCAAGCGGATGCGCTTACACATAAAGC
GGTGTGCGGAATGCTTCAGCAAGCGCGGAGTGGGACTGTTGCGAAATAGGGTCAATG
TTTTCGTTTTCATTTTGGGTTTGTGGAGCGGATTCGCGTTGCTTTGAAGTTGCAAAAC
GGTTTGGATTACGCGGAAACGCGCTTGTGCGCTTCTTGGCGAGTAGAGGTGCGCTTT
GTAACGCGAGCGGAGGAGGAGGCGGTTTGGCGCGCAAAATACGCGGTATTCAT
CGTAACCTTCCTCATAGGCGGAGATGTGGCAGATTCGCGCATCTTAACAAAAAACAC
GCAAAAAGCTTATGATGCAAGACGAGTTCGCGCGGTAAACAGGCGGATTCGCGCGCTTCG
ATCGAAGACCAATGACGAAAGCGCGGATTTGCACTGCGCGTTTCGCGCAAGCTCT
CCTGACCATCAAGCGGAGCGGCGGCGCAATATCGTCAACCGCCACACGCCCAATCA
GGAATGTGGATTGCGCGAAGGCGCGGCTTACATTTTCGCGGAGCAAGCGCAAAATG
GCTGCGAACGCGGAGCGGAGCGGATTTTATGACGTTTAAACGAGCGCTGAGCGCGCG
TTCGGCGAAGCGGTGGAATTCGCGAATGTGATTTGGGTGTTATCACGGAAGAAAAA
ATGAACACAGCTGCTTTTATTTCGAGCTGATATTTATCGCGATTATGCGTACTACTGCT
AGCTATTAGGAACACATGATTTTCCATCATATTCATATCAGTCTTATATTTATGCT
ATCTGCTGGGATGCGAATGCGAATACATTTTTCGCAATTTGCGCAAGTGGGA
AAAGCGCTTTGTTTTCGCAAGCGCGCTTCTCGCATCGCATTTGTTGTATGTTT
CGCTCACCTTTTGGCGATATTCGCGATGTAGGATTAATGCGGTTGCACTGATGCAATC
ATGCTAAATTCAGCTTCTTTTACCGACCTTTAGGATTCGTTATCAAAAATGAT
AACAATGTTTATCTACTGCGGCGAGTTGACGATTTGCGGTGCGGCGAGCATGATG
CGCGGAGAGCTGTTACTTAAGCAGAAATCCATAAAGTTTCAAGTGGCGATTGCGGTAGTG
GTCATTTTCGGGAGCTTGGTATTTTACCTACCGCTTGTTCAGCATGTTGTCACAAAT
TAAATACCGCATCAATGCTGATTTATGCTGCTGATGCTACGAGTGGCGGCGCA
GCTATGCAATTTGGGAAATATGATGCTTATGCTGCGGAATGCTGCTGATTTCCAA
ATGATCCGAGTGATGCTGCGCGCTTTTATTAATGTTTCTTGGTATTAAACAGT
AGTAATGAGATTCAGAAAAATACATCACAAAAATTCAATCTCTGTTTGTGCTACTT
TTTATGTTGTTTGCATTTTAAATCTTTGATTTATACCAAAAGACCTGCGAAATTA
TTCGTTGAATCGATTCTTCTTATTAATTCATCAATGGCTGCGCTTGGCTTAACGACG
CAGCGAAGCGCAATCAAAAGCGAGATTAACACGTTTGTGTTAGAGTACTTACTTAT
AGCGCGGAATGGTGAAGATGCGGAAAGCTTTTATGCACTTATGAGATGAAATGCTGGACAAAT
CTATCCGAAATCACTACAAATGCGACATTAACAGAGATGCGAAAGCTCTACTAGACG
TTTCAAGTCTGATCACACCGCTATGCACTGCGCGCGGCGGAGCGTGGCGAAACATGAC
TAGCGCCAAAGCGGACACCATACCGCTTTGACCTGCGCTTTGCGTTTCCACAAGA
AATCTGCTGCTTGAAGAGGATACACACGCTGGAGCATTTGTTCCGAGCTTTTATGCGCGA
CCACTTGAACGCGAACGCGGTGGAATCATCGACATTTCCCGGATGGGCTGCGGACCGG
TTTTTATAGATCTTATCGGACGCGTTCGCAACAGCAGGTTGCGCGGCTGCTGGCTGGC
TGTGATGCGAGTCTTTAAATGCTCAAGAGCAAGCAAAATCCCGAGTTGACAAAT
CTATGCGGCAATGCGGCTGCGGCTGCGCGGAGCGGAGCTGATGAGAGCTGCGGCTCT
GTTGCGCGCAATGCGGCTGACCAAAATGAAGAGCTGACGCTGATGAAGCGCTCT
GAACGCTATCGCGCAAAATCGCTTGAACAGGCTTCAGACGGCATTTGCGCTTTT

Appendix A

-463-

CCGTTAATCCGGGGTTGTCCGGGGGGGGTTTAAAGCGGCATCGTCTTCCCTATTT
 TTTTCGTCCCTTATCGGTTTAAAGCGGGTTTTATGTGCAACAGACCTACACTCCTCC
 TCGTTGACGGATGCTCTACCTCTACCGTGGCATACGCGGATGGGCAAAACCTGACCG
 CCCCAGACGGCGCGGACGGGTGCGTGTATGGTGATTAATAATGTCGCGCGTTTGC
 GGTGCGAATATCGCACGATTAATGCGCGGTGGTTTTGATGCGAAAGCGAAAATTTCC
 GCCTCAATATGTTGAAGAAATCAAGGCGCGCGCGCGCGATGCCGACGATTTGCCGC
 CGAGGCGGAAGCTGCGCAATTAATGTCGCTCGAGAGCGCGCGCGATTTGGTGATG
 CGAGGTGGAGGCGGACGATGTATCGCACGCTGGCGAAACAGGGCGCGCAATCGTT
 TCGAGTCATTGTTCCGACCGCGATAAGGACATGGCGAGTTGGTGATGAGCGGTTA
 CGCTGGTGAACAGATGAGCAGCGAAACGCTGGACATTGAAGCGGTGAAGGCAAAATTCG
 CGGTGCGCCCGGCAAAATCCGCGATTATCTGCGCGTATGGGCGCAAGGTGGACAAAG
 TCGCGGGCTGGAAJAATGGCGCGGAAACGGCGGTAAATGGCTGGAAGCTACGCTT
 CGCTGGCTGTGTATGGACACGCTTCGGAATCAAGGGCAAGTGGGCGAAAACCTGCG
 AAGCGCGCTGCGCACTGCGCTGTGATGATTTGTGCGAGATTAACAGCGATGAGC
 ACTTGCAAGCGGCTTTCACGCGCATCGAAAGCGCTGCGCTACTACGCGAATGGG
 CGCAGCTGGTGTGATTCAACAGCTGGGGCTTCGCGACCTGGCTGAAGAAAGCGGAAT
 CAACATGAATACCGCTCGACCGATGATTGTTGCGGACGACAGCATCGGCGAGCAGG
 CGGCTTTGAATCGGAAATCGGTTTGAAGAAACAGCGGAAAGACCGCCCCCGAA
 AACTGGATTATCAAGCGTTTACACCGAAGCGAGTTTGGCGCTTTGTTGACAAACTGT
 CGCGGGCGACCAATCGGCATCGATACGGAACACAGTCATTAGACGGGATGAAGCGCT
 CGCTGGTGGCATGAGATCGCTTTCAGAGCGCGCAAGCGGTTTTCGCTCCCGTAGAG
 ACAGCTGACGCTGCGCGCGACGCTTATTTACAGAGATTAACCGCTGTGAAC
 CGCATTTGGGAAACCGCGCTTAAAGAAATCGGCGAAACCTCAATATCGACCAACAG
 TTTTGGCAACTGAGCGCATGCGCTGAAAGCGGATTGCGGCGACGCGCTGCTCGCTTCT
 ACATCATCGAGGCGCATTCGGAACGCGCTGGACGAATTTGCGGAACGCTGGCTCGCT
 TGGAAACCATTTACTACGAATCGCTGTGCGGCAAGCGCGGAAGCAATCGTTTTCGCG
 ATGTCGCAATCGGCGAGCGACCGAATACGCGCGCGCAGACGCGGATTTTCGCGCTGCGCG
 TCGAAGCGACCTCGCGCGCAATAGCGCAACAGCGGTTTTCGCTGTAAGAAATGG
 AAGTGGCTGTGCGCGCGCAATAGCGCAACAGCGCTTGAATGTGAAGAAATGG
 CGCAATCGCGCGCGCAAGCGCGGACATCGGCGCGGATGATGAGCTCGAAGCAAGAG
 CCTATGCGCGCGCGACGCGCTTCAACCTCAATTTGCGCAACAGCTGCAAGAAATCC
 TGTTCGCAAAATGGGCATCCCGACCAAGGCTTGAAGAAACCGGCAAGCGGCGATT
 CCACCAACGAAGCGGTGTCGAACAGCTGCGCGCGGCTACCGCGCTGCTAAATCATCC
 TGCAGAAACCGCGCTGGCGAAGCTCAATTCACCTACACCGACAAACTACCGGAAATGA
 TTTCCCGCAAGAGCGCGCGGTGATACACCTACCGCGAGCGGCTGGCATTAACCGCG
 GCTTCGCGACCAACAACTGCGCAAACTGCTTCGCGCGCGCGCGAGAGCGGCTG
 AAGTCCGCGCGCGTATTCGCGCGCGCGAGCGGCTGCTTTTCGCGCGACTATTCGCG
 AAATCGAGCTGCGCATTATGCGCGCTTCTCGCGCGCAAAACCGGATGTCGCGCGTTC
 AAACGCGCGAGCGCTACCGCGCGCGCGCGCGCGGAGGTTTCGCGACTGCGCGGAA
 ACGTCTGCTCGGAGCAACGCGCTATGCAAAAGCATCACTTCGCGCTTATTTACGCTA
 TGGGCAATACGGTTTGGCAAAATCAATGGGCATCGCAACCTTTTCGCGCAAAACCTTTA
 TCGACGCTACTTCGCGCGCTACCGCGCGGTCGCGGAATACHTGAGCGCGACCAAGAAC
 AAGCGCGCGCGGACGCTACGCTGAAGACCTGTCGCGAGAGGCTCTACTGCGCGCA
 TCCGCAACAAAGCGCAACCGCGCGCGCGCGAGCGAGCGCTGCTCATCAAGCGCGCA
 TCGAGGCGACCGCTCGACCTCATCAAGCGCGCATGATAGACGCTGTCGCGCTGGCTTT
 CAGAGTGCAGACGCTCCCGTGGGAGCACTCTTACAGCGCAACCTGATTTCGAGGTGC
 ATGACGAATCGTGTGCGAAGCTGTTGAACCGAAGCTGGATTTGTCGAAGAAACCTGC
 CGCAGATTATGGCGAAATGGACGCGCGGATTATTGGATGACCGCTGGTGGCTGAGGTTG
 GCTAGGGGAGAAATGGGAAGGCGCATTTGATGAAGGTGTATATGCTATCTTTTATT
 TAAATAAATTTAATTTTGGTATATTTTCTAAATGTCTTATAGTATAGTGGATTA
 CAAATACAGGACAGCGGACGAGCGCGGATGATGATGATGATGATGATGATGATGATG
 TGTGCTGCTGACACTTAGAGATTCGCTCTTTGAGCTAAGCGAGACACACTGCTGAC
 TGGTTTTTGTATTCGCTATATTCCGCTACTCTTAAGATTACAGGATACACGGGTGA
 TTTAGGAATGCGCGAACGCTATTCCCGCACTTTTCTGCTATCCGAGAAAGTGGGAA
 TCTAGAAATTAAGAGCAGCAGGAATTTATCGGAATTAATGAACCGAAGCAGCTAGATT
 CCCACTGCGTGGGATGACAAATCGAGACTTTGCAATAACATAGGCTTCAATTAATTT
 ATGCTCAATCTCAATTCAAATGCAAACTTTTCGATTTCCTACTTTTTCGCAAT
 ATTGGAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG
 TAAGCAGCTATTTTGAAGGTCTCAATTCATAAGTTTCCGGAATTCACATACACG
 AAACCTGCAATAACCGTAGCACTGAACGCTATTTCGCGCGAGCGGGAATCAAGACC
 TTAGAACAACGCAATATTCAGAGATTCTGGAAGCTCGAGATTCTAGATTTCGCGCTTT
 CGCGGGATGACGAAGAGCAAGCGTATGGTCGGRATCTGTATCCGCAAAAGCGCTGCGA
 TCTCAATAGCGCTCGGATTGGAATCCGACCTGCGAAGCGGCGCGGACGCTCGCGG
 CGGCGGTTGTAGCGCAATCGGAACAGACATCAACAAAGCGCGGATTCGGATTTCGCA
 TCGGCGCTTTTTCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 GATTTACAAATTCAGCGAGCGAGCGGAGCGGAGCGGAGCAGTACAGATGATGATGAG
 GCGAGCAACGCTGCTGCTGCTTAAATTTAATTCATTAATGCAAAATCAAGCAAAAC
 CGGCGGAGGTTTACCAAAAGGATGAATCAACGATATTAACACAGCTATTTTACG
 GCATTTTCAGGCTGTGCTAATCGGGAATTTTCGTGAACGCTTTTTCGACGCGCTC
 CGCTGCTTTTCGCGGATGGGAACCGTATTAGAAACGAGCGACGCAACATTAACCCC
 GAAAGCTGATGATGATGATGATGATTTAAGCTACTGCTTTTATTTATTTAGGAGATTCG
 TTTTCGCAAAATCAAGTTGAGTTTGAAGAAATTTTTCGCGCAAGAAAGATTTG
 GTTTCGCAATTCAGCACTGCTTTTTCGCAATTTTCGCAATTTTCGCAATTTTCGCA
 GAACAATATTCAGCTGCAAAATGAGCTCGCGCTCACTGGAAGACATCAACCAATC
 TTGAACCTGAAGCGTCTTCAATATGCTGATTTCGCAATTTCAACAGCGGACCGCTG

-464-

GTATTCACGCTCTAAAAAATCAACCAATCTGTGGCAAGGACGATTTGGCAGAGC
 GCGGATTCCTACGACCGGTGGTGCGGTGACGTAAGCTATTGGAGCGTCCCGCATCGCCG
 ATCAAGTAGGAAGAAATAGAGTGGCCGGCGGTGTACAAATAATCGGCTGCAAGCGGTG
 TCGACGACGCGGACGAGCGCTGCTTTATGCTGTTATGTATCGGACGAGAGGTTTITGGG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 GCATCTTGGAAATCTCGGAATTCAGATCGCGCAATTCATGAAGAAATGTATCCGATCT
 TGATGCTCGCGGAGCATACGATTATTCGATTTGATGATAAAATGTATATCCGGC
 ATAGCTCGAGACCTTTCGAAATATCCCAAAACCGCTTAATTTGCTCACCAGACGAATTAG
 GGGATTTCCTCATGACGACATCTTCCGAGCAAAACCGCCAGGCGATGATCGACAGCAT
 CGACGCTTCCCGCATTTGAAGTGGACAGCGTATTGATGGACAGCTCGAGCAGCATCT
 CTGCAACGCTAAAACACCGCTTACCTTAGAGCAGACCGCGCGCTGCTGCTATCTCCTCT
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CGNACACAGCTCTATACCGGACATGATTACCTCTTTTGGCTGTTTCGACAGCTCTG
 CATCCCGCATACAGACAGATCTGCGCTGACCGCAACCGCGGCGCAGACAGCACCTG
 CTGCGACGATTTGGACATCATTAACCGCAACCTCGCAAAAAGAGCTTAAAGATAGAGC
 AGCATTCGCGCGCGCTGCTGAGCGACGATTAATTCAGACGCTGGCGACCAACAGCGCACA
 GCGTATAGAAGTCGATGAGGAGAGCAAAATCAACGCGCAACACACCGGATAGGACAGC
 GCGCTCGGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CAACACCTCCCGCTCTTTGGAGAGGAGGCGCAAGCTGACGATCTATCGGACATAA
 GGGTACGACGCTCGGAAAGACGCGACCATCTGGAGACCATCAGTTTCAGACGCGAGTAT
 ATTGCGAAGCTTCGCGCAACCGCTGCTCGCGGAAAGCGCAAAACGACGACGAGGTAT
 TTTTGGAGACGCGATTAAGTGATTAATTTAANTAGTCAGACAGGAGGAGCGGCGAGC
 ATAGTCACAAATATGACGCGAAGCGGACACCGCTATGTTTAAATTTGCTACCTACATA
 TACGCTGGCGAAGCGATCTGCTGACGACCACTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 TGAATAGGCGCGACAGGACGATAGTGGCCCGCTGCGCAAGCTGACGATCTATCGGACATAA
 GTATTCGGGCTTCGCTGGAGGATTAAGGCGGATTTGGGTAGAAATAGGAGGATTTGCTG
 TCGCGAATAATGAGAAACCTCTGTTGGGTTTCGCTGCTGGAGGAGGAGGAAATTTTGG
 TCAAAGCTTCGACGATTTTGGGCGACGAGAGATATAGATTTTCCCGCCACCAACGACA
 GCGCTTAAATACATTAATGACGATCTAGACAGTCGACGACGACGAGCGGCGGCGGACGAG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CGACGCGTGAATTAATTTGATCGCGCGCTGTTTGGCTCGCTCTCGCGGCGTTTGGG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 ACTCGGCGCTTCGCGAAACCTGAGCCATTAAGCGGGATTTAGCGCGCTTGTGCATTTT
 CGCGGACGCGCATCTATGACAGACGCTCAATAAGGCGTGAATGAATATGTTTGGCG
 GCGGTTGAATGATGATATCTGCTATATGCCGCGCGTAGCGGTGATGATCGAAGCGCGGTC
 GTGGGATATGACGTTTGTATGAGGATATATCGGCTTTTGGACAGCAATAGCGCGTGGC
 GTGATGACGACGCGGCGGCGGATTTCCCTCGCATCCCTCTGAAGGCTGCGCTCTCT
 ARAACCGCGCGCGCGCGCTGCGGATCTGAGACCTCTGATCGGAGTATGCGCCGAAAC
 GCGCGCTCGCGGACCGCTGCGCAGATTCGCGATGCTGCTCGGAGGTTTTCGCTGCG
 GTTGTTCGAAACAGGATGCGCAGCGCGCCGCTCGGAGGATTTTTCGATACATGTTG
 GCGCAGCTGGATGTTGGTGGGAGGCGGGAATCTGCGAAGATCTGCGCAAGCTGATTTGCTG
 CCGGATCGCGCTTGTTCGAACCGCGCTCGGGGCTGCTCGGCAATCTGCGGAGCTCAATTTG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 ATAGCGCTCTGACGTGCGCTGCTGGGCTGGGCTGGGCTGCGATTCGCGCAGCT
 ATATCGCGGGGCGCGGCGGGGCGGGGAGGCGGTTGATCGCGCGCGCGGCTTTCGCTGCT
 GCGCTGCTGATCGGAGGAGGCTGTTATTCGCTGCGACCGCTTTTCTCTCTTCGCTGCG
 TCGTATATGCGGCATATTTCCCGCGCTCGCTCGCGCGCGCTTCGCGACGATTTCTGT
 TTTTTCGACGATCTCGCGCGCGCGCATCAGCGCGCTCAAGGCTTTCGCGGTTTCTTT
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 ATAGCGCTCTTCTTTTCGAGGCTGAATTAAGGTTTTCGACAGCGTTTGGTGTCTGCT
 TCTTCTCACTACGCTCAATTTGCTGAGGCTGCGAGCTCTGCGGATTTGTGCTGCTGCTGCT
 CAAAGTGTAGTGCTTGGGAATCTGCGGATCTCAATTTGTCGCTGCGGTATGCGGAC
 GAGTTTGGACAGCTGAGCGAGATTTGCCGACGCTGCAATTTGGGCTTACGTCGAGCT
 CTGTCACAGGGATCTAACCGGATTTGGGCTGTACGACATATAGGCGAGCGCGCGAGGCT
 GCGATAGGCGGATTTGAGTGTATATGCTGGCTGTTCGACGTTTAAATTCGCTAATTCCTGT
 GCGTACGCGAGCTGCTATCTGCTGCTTTTAAATGATATAGGCTATCTTGGCGCTGCT
 GATTTGGGAGGAGGAGGCGCTGCTTTCAAAATGGAATCTGCCTTATGCGCTAGGAGGAG
 ATATTGCTTGATTCGGAAGAGGCTGCTTAAATTCGATCTGCGGAAAGCGCTCAGCT
 TCTTCTTCTTACGCTGCTGCTTGAATTTGAATTAAGGAGTTTTCGCTTTAAATGTGCTGCT
 GCGGTTTAAATGTGCTGATTAATTTGCTGAGCATCTGCCAGCGAGTGTGCTGCTGCG
 GCGGATTCGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 GTTGTGCTGCGGCTGCTGAGATTTAAATGAGGATCTGTCGAGGATCTGCATGTTGCTG
 GCGATGTTGGCTTAGCTCACTAGGAACATCAATATCGCTGATAGGTTGTTTTCGAC
 ACATTTTCTGACGCTGCTGACGATCGGACGATTCAGCATTTGTGCTGTTTGTGCGTGC
 CGACCAAAAACCTCTTGGGCTGATTTGCTAAATAGGACATGCTCTTCACTTTGCGACAT
 ATTTGGGAAACGACGCGCTCTCGCTTTAAATTTGGAGGATTTTCGCTTTAAATGTGCTGCT
 GTTGTGCTGCGGCTGCTGCGGATTTGCTGCTTTCGCCCGGACGAGTCTGCGCTGCT
 TCTCGCGCGGCTGTTAAGGATTAAGCTTGAAGCGGCTGTTTGGTCTGATCTTCTGCT

Appendix A

-465-

GCACAACCAACCGTTGAGGCAATTTCTTTTGTGATCCAAAGCTGTGGTATTGCCGGT
TGCTGCAATCTTTATTTAGCTGTGAATGGTAACGGGTGATTTTCTCTGATATGTGGGT
GACAAATCATCGCCCTTCATCGGTATTTGTAACGTGGGAACGAAGCAATCGCCGTT
TAAATCCAAACGCTGCCGCCGAAAGCGAAATAGAGTTTGTGCGGGTGTGACGTATTATC
GGCATTCAGTTGCACCGGTACCCCTGCCGTGACCAAGCGATTTCATCAAGAGCTTGTT
TTTGCCCTTTATCGTCTGCCGTGATCGCAAAATGACTGTACCGCTGCCACAGCTGATCGA
GCCCTGGTTTTCGCCCTTTGGCTTGAACTGTGACGTGCGCTTTGGCGATTTTGGACAGCGG
GTGCTTTGCCACGCGCTTTACTTTTCACAGTACAGGTACTGTCTTACCATGATATGAACGC
CGCGCTTTGCAATAGAGGGGTGGCGCTTTGCAATGACCCATTAAATGACACTTTTGTCT
TCCCTGCAGCACTTGATTTGATGTGGTGTGCTGGCAACCAATTCGCTTTTCTCTGCTCAAT
AAAGGAAATATTTTCTCCATTATTCAGTCTGGGTGCAATCTGTTGACACCACTCGACAG
ATGATAAACAGGTTCTCTGCTGCTCGGATAAAGAAACATTAACCAATTTGAACGGTTG
TGTTTTTAATCTATTAGGCAAGAAATGTGTCATGTTTGGCAATTGATTTTCTCTGCTCC
ATTATTATGCTGCTAAAAGAGTATTTCCCAATTTGACGTGGTCTGTAGAAIACCTGAATG
GGTATCTCCAGCAAGATTTCATCATAGAACCAATTTTACGACACAGCTGGAAGCAATT
GCTTTTCTCTATAGGGGTGGCGCTTTGCAATGACCCATTAAATGACACTTTTGTCT
TTGGGACATATAGATAACATTGGTGGTGTGCTGCCCAAGAGAGCTCGTGTGGTAA
AAAACCATATGGCGTATGTTAAATTTTTCACACCTAAGTTGACTGTGCCACCACTGA
TCCATTTTGTGCAAGGATTGCGCACCAAGAGCAAGATAAGCACTTGCATATGATA
TGAACCTTTCGCGGTTATTGGGCTCATCTTCATCAGATCGCAATATTGCTGCTGCCGCC
AATACGAACAGGTCAGGAGTAAATTTATTTGATCGATATATTCCGCCCATCCATATAACT
GGTCATTTCAACAGGTTCTGCACTGTGACAAATTTATGCAAAAGCGGCACTATGATAATC
GCCGCCATAAGAGATGGCGTTTAGCGCCGTCTTATAATATTCGGTTTCACAATTTTATA
AGTAAAGCACTGTGATCGGATTTCTCTGCTGCCACCAATTAAGCTTTTATGAGC
CGCGTTATGTGCCACGCTCACAATATATTGATCGGCCACAATGCGGCCACCGCTTAGC
CGACACACAGAAAATCAATCATCGGGCTTTTGTGATTGATTGGCACAACCTGCC
TTTTTGTGTAAACCTCAATATCTTTGCCGCCGACTGCAACCTTGCTTTATTTTGGC
AAGCTCGCATAGTATTGGTATTTGATGCCGAAATAGTGTGTCGCCGCCAGCGCTTGGG
AAGATGCCGACAGGCAATATGGCTAAGTAAAGCAAGCGAGTGGCGGATGCGCCGGT
TTTGGGGCTTTGCGGTGTGTTGCGTGTGCGGTTTGTGGTTTGTCAATATTTTTC
TATCTGACGGCTGTTTGGGGAGTGGCGGCTTCCGCTTCCGGCGCGCGG
GGATGTGCGCTATGTGCGGTTGCGGCTTCTGGCGGATATCAAGCACGCCCTAGCATTT
GTCAATTAATTTTGGCTTTGGCTTGGCTTCTTCCAACTACGAAGACCCGCCAAGGCA
ACACTGTGCCGCCGCAAGGGAGCGCGGTTGCGGGATGCGCGCTCATAGGAGRA
CGCAAAAAGCAGTATCAGGATGGCGCTGATGAACGCTACAGTTGCCCGCGCTGTGGA
AGGTTTGGCTTTCGCCGATATGTTTGTGCGGGAAGCGCTGTTCTTTTCGCCCATTTGCCA
TATGCGGCTTCCGCCCTTGTGCTATGATCGCGCTGTTTGAATTTTCCGGGGTTT
GCAACGGTTCGAGATGCGACCGGCTATCATATTGCGACGACCTGCGGAGGA
TTTCTCGCGAAGCTCGGGGATTTGACGACGGTTTGACAGCTCGCGCGCTTGTCTCT
GTGCGTTTCTGGTCATTTTCCGCGCTTCTCTATGCGCGCTTGAATACTGCCCGATGTT
TTTGAGATGCTGCGCGGATTTGGGGCGGATGGCGGTTTTTGGGGATGGAACGACCCAG
CAGCGAGCTTATACCGAGCAGGAGGCGTATGTCTTGGTTTTTTCATATGGTATATAT
TAGGTGACGCGGACGGATTTATCAAGCATTTTTCGGCTTTATACGCTGTGAAGCGCAA
CCGTCGGACTTCAGACGGCATTTGCTATAATCGCGGCTGTTTGAATTTTCCGGGGTTT
ATGTCGGATTAAGTTTCAAGATTTGCGAGTGTCTTGGCAGCAGAGCGGGCGGCGTG
GGCGGTATCGCTATCGGATTCGGGAAACCTGTCGCGAGCGCGGCTTTTGTGCGGAA
ACGCCCAAGCGCGTACCGCAACTATGCTGATTTTACGGACCGGACGACGACCAATC
GACAGCGGGCTTTTGTGTTTTCGCCGCAACCGGCAAGTTTACGGGTGAAGATGTCACT
GAGCTTCAGGAGACACGCGCGCGCGTGGTGAATGATGCTGCTGAACGCTGTTGGAA
TTGGCGCGCGCTTTCGCCAACCAGCGCGAGTTTACGAAGCGTGGTTTTGAAGACAJA
CTGGACTTGGCAACAGCGGAAGCGGTGGCGGATTTGATTGACGATCCAGCGCTTCCGGG
GGCGCTGCTGCTTTCGCTGCTCAAGCGGATTTTTCGGCGGATACAGGCTGTGATG
GAAGCTTAATTTGATGAGGATTTTGAAGGATTTTGAAGGATTTTCCGAGGAG
ATTGATTTTCTGAGCGCGAGACGACGCGCAACTGGACCGCTTCCGCGCGCGGCG
GATGATGTGCTTGCCACCGCGACGCGCGCGGATTTTTCGCGAGGCTGATGATGTGCTA
TTGTTGCGCGCGCGGAAATGTGGCAAGTCCAGCGCTGCTGAACGCTTGGCGGCGACGAA
GTGGCGGTTTGTACGATATTGCGGGAACGCGCGGACGCGCTGAGGAGCTATCTCTG
ATTGACGCGGTGCGGCTGCAATTTGTGATACGCGAGTTTGGCGGACGACGACGCTG
GTGACGCTATCGGCTTTCGCAACGACGCGCAAGCGATTCGGAAGCGATGTGCGCGCT
GTGTTGGCTGATGATGGGAAATTAAGCGGATGAAGCATCGTGGTGTGTTGCGCGCT
CGCGCGAGTTGAAGCGCATCGAATTCGACAGAACTCGATTTCGACGACACCGCGCA
GGCGGGTTGCGTACGCGCGCGGAAACCGCTCATCGGCTGTGCGCGGAAACCGCGACGCG
TTTGACGCGCTGAACCGAGCTGTTTTCGCGAGCGCGGTTGGCAGGCGGAAAGCGAGGG
TTGTTTTTGGCGCGGACGCGGACGCTCAACGCACTCAAGCAGCGCGAGGAATTTGTCT
CTGGCGGCAATTGTGCGCGCAACCATCAATCGAGCTGTTTGGCGAACACTTGGCTTGGCG
CAGGTCGATCGCGCGAATCACCGCGGAGTTTACGCGGACGACGCTGCTCGGCGGATT
TTTTCAGGCTTTGATATGGGAAATTAAGCGGATGAAGCATCGTGGTGTGTTGCGCGCT
AAGTTTCGGTTATGCGCTAATAAAGAGGAAATCGATCGTTTGTATATGAGGATTA
AAAAATCAGGCAAGCGCGACGAAGCGGACAGCATCAAAATGACGGAACGATTCATCT
TGGTCTTGAGCACTTATGAGATCGTCTCTTTGAGCTAAGCGGAGGCAAGCGCTACT
GGTTTTTGTAACTCACTATAGTTTTTGAATTTCCGGGACGCTTGAATCTTCATTTC
CGCGACGCGGAAATATCGGTGCGGTACGCGCACTTTTTCGATATGAAGACCGCTCAT
TCTCTGTAAGAAACAAAAATCAAAACAGAAATTTGAATTTGCTCATTTCCGCGCAGCGG
GAATCGAGGAGCTAAATCTATATGTGGATTACAAAAACAGTACAGCGTTGCTTGAAT
TTGCTCGAGAGGACGATCTCTTAGGTGCTCAAGCAACGAGTGAATGGTCTCGCTACTA

Appendix A

-466-

TCCGTACTGCTCGCGGCTTCGTGCGCTTGTCTGATTTTCTTAATCACTATAAAGAAA
CCGTTTTCCTGGATAAGTTTCCTGTCGGCAGACAGCTGGATTACCACTTTCTGTGGGAATGA
CGGTGGAAAGTTGCGCGTATTTCGGATAAATTTCTGTAACGCAATAATTCGCTTTTACC
CGATAAATGCCCCGAATCTCAAAATCCGCTCATTCGCCAAAAACAAAATCTAAAAACAGA
AATATCGTCATTCGCCGCGAGCGGGAACTGAGACCTTAGAACCAACAGCAATATTCAAG
ATTATCTGAAAGTCGGGATTCAGATTCCCACTTTCTGGGGAATGACGAATTTTAGGTT
TCGTGTTTGGTTTTCTGCTCTTCGGGAATGATGAATTTTAACTTTAGGAATTTATC
GGAAAAACAGAAACCGCTCGCGCGTCATTCGCCACAGGCTTCGTCTATTCCCGCGAGG
CTTGCTGATTCGCTGATTAATATGACGATATTCGCGCGCTTTTTCATTATTTCCGAC
AAACCTCTGCAACAAAAACACACTTCGCAATAAAAACGATATACGCTTCGCAAAAA
TCCCCCCCCCTGTTAATAAATAAAAAATTAATTAATTAATTTTCTTATCTCGCA
AATCTTAACGGTTTGGATTACTTCCTCTCATCTCAAGGAGCAGTTGAATGAATACCC
CATTTGTTCCGCTTCAGCTGCTCTGCTTACCTTGGCGGAGGTTTGGCCATCGCGCAG
AAAAATATGCCAAGGTCTGACTGGATACCGTTACGCTAAAGGCGACGCCCAAGCGACGA
AAATCGGTACCAACATTCGTACGCTGCACAAAGACGAAGACACGCCAAGCGATATGC
GGCACTCTTAAGAGAGCGCTCTGATGTTTCGGGCGTTCGGCGCGTTCGGCGGCGGCG
TCTGTAAGCTTCGCGCGGATCGGTCAAACTCTGTGCATCAAGCTGGACACGCTATT
CCGACAGCCAAATCTTTACCAACAAAGCGAGTTTATTGTCGATCCCGCTTGTGTTAAG
TCGTTTCCGTCAAAAAGCGCGGGTTTCGCGCTCTGCGGTATCGGCGCGACCAACGGCG
CGATCATCACCAAACCGCTGATGCCCAAGACCTGCTCAAGGCTTGATATAAACCTGGG
GGTGGCGCTCAACAGCGGCTTTGCCAGCAACGAAGCGGTAACTACGGCGCAAGCTAT
TCGGGAAGAGGCGACTTCGACGGCTTGTCTCTTACCAACCGCAACATGAAAAAGATT
ACGAACAGGTAAAGCTTCGGTAATAATTTCAAGCGCGGCAAAACCTGATCTACAGG
CGCTGGAACAAACGAGCTACTCTGCAAAATGGGAACATTCGGCGAGCGGACACG
GCATCGTATTGAGCCATATGAAGAACCGACACCGGGGACTCCGTACCTCCCGGAAGAT
TTACCGTTCGGCGGCGATATAAGAGCGAATAAGTATGGACGCCAAGCCCTGCTTACGGG
AAACACCAACATCTCAACCAATTTGGCTACACGGGTAAAACTCGGCTTGTGCAAA
AACTGGATGCCAACGCTTATGTGTTGGAAAAAGACGCTATTCCGCGATGACAGCGGCA
CCGGTTACCGGCGAATGTAAAAAGGCCCAACCATACCCAAATCCACCTCGGGGTATGA
ACTTCACTTTCAAGACCGCGCTTCGCAACCAACCCCTCTGAATATCGTATCAACTACC
GCTCTCGAATAAGAAACGCTTTGATTAACAATTAATAATGAGATAG
AAAAACCACTGATGAGGAAGAAATAAGAACCTGAAAAATGAAAAATTTGCCAAGCT
ACCGCTGACCAACCGGACCAAAACGATACCGGGCGGTATATGCCAAGCATTCACGAGA
TTGACGGCTTTTACCTGACGCGCGGGCTGCGTTACAGCCGCTTCAAGGTGAAACCCACG
ACGGCAAAACCGTTTCAAGCAACACCTTAAACCGAGTTTCGGGCTGATTTGGCAGCGCG
ACGAACACCTGGAGCTTCAGCGGACGACACTACGCGCGCGCGAGCGCGCGCGCTGATG
ACCGGCTGCAAAACCGCAACCAAGCGCGCTATCTGATGTCGCGAGCGCAAGACCG
AACGCGCGCGCAATTAATGCGCTCAATGCGGACGCGGACCTTGGCGGCGGCGGCG
GACGCTACTTCTGGCAGCAATCAAGACGCGCTTGGCAATCGCAAAACCGCGACGACT
CTGTCGCGCTCCGTGAAGCGCTCAATGCGGTTAATCAAAAAACCGGTTACGAATTTGG
GCGCGCTCTACCGCAACCGGGCGCTGACTGCGAAATGCGGCTAAGCCACAGCAAAACCG
GCTTTACGATACGCAAAAGCAAGCTGTTGAGCGGAACTCGTAATTTGGCGCAACG
TCGGCGGCACTTGGACGGCTTCCTTGGCTACCGCTTCCAAACCGCGAATCTGGAAATTCG
GCTGGCGCGCGCTTATGTTTCAAAAAGCCGTGGGTTGATATTGTTGGCAGGTCAAAAAG
ACGCAACCGCAATTAAGAACGTTTACGCAAGGTTTCGGGTGAACATGCTCTG
CAACTGGAACCTGCGGCAAAAGACGCTCAATGTTAATTTTCGGTTAACAACTGT
TCAACAGCTTCTACTATCCGACGCGCAACGATGGACCAATACCTTCGCGGCGCTGGGAC
GTGATGTACGCTTGGCGCTGAATCAAGCTTCAAAACGCACTCCGCAAAAATGCGCT
CTGAAGACCTTTACAGCGCATCTGTTCTGATAATTTGATATATATGTTAACAAAAA
CCGATACGCGCTTGCCTGCCCTTAGCTCAAGAGAACGATTTCTTAAGGTGCTGAAGCAC
CAAGTGAATCGGTTCTGACTACTATTTGATCTGTCGCGCTTCGTCGCTGCTGCTGATT
TTGTTAATCGCATTAAGACCGCTGGGCTATCTGACGCGCTTATGTTTCGCGCGAGCGG
ATCTGACCTTAGCAAAACGATATCTGAAGTTTCTGAAAGTCTGCGCAACATCTGAT
TCCGCTTTCCGCGGAATGACGAAGGTTGCGGGAATGCAAAAATTCGCGCAACGCA
AAAGTGTATGGGATGACGAAAATGATGGGAATGACGGTTTCGGGCTTCTTAAATTTAC
CCGTTGATCGCTTGAATCTTAGAGATGGCGGAATATAGCGGATTAAACAAAAACGATAC
GGCTTGCCTGCGCTTAGCTCAAGAGAACGATTTCTTAAGGTGCTGAAGCCCAAGTGA
ATCAGTTCCGTACTATTGTACTGCTCGCGGCTTCGTCGCTTGTGCTGATTTTGTAA
TCCACTATGATATCAATTAATCTTTCAAGCGGTTCCGGTTTGTGCGCGCGCGGCT
TTTCCCAATTAAGTAAGCGGACGCTGATGCTTACGCTTGTGCGCGCTTACGCGGCT
CAAGCGGCTCTGTCGGCGGCTTGCGCGCAAAATTCGCACTTCGCGCGCAACGCA
AGAACGCGGTTTCGCGCGCAACACGAGGCGGCTCCGTTACGCTCAAAACCGCGG
CGCGGAGCTTCAAAATCGCAAAACCGCAACGATCGCGCTTTACGATTTGGGTATGCT
CGACACCTTGAGCAACCTGGGCTGAAACCGGTTTTCGCTGATATAAACCGCTGCG
GATTTAGAGGAATATTTCAAAACGCAAAACCTGCGGCACTTTGTCGAGCGGATTA
CGAAACGCTCAACGCTACAAACCGCACTCATCATCTGCGAGCGCGCGCGCAAGCG
GTTTGTGAATTAAGTAAGCGCGCGCGGACCTGATGCTTGTGCGCGCTTACGCGACCT
CAAGAAATGCGCAAGCAAGCGCATGCGCGCAAAATTCGCACTTCGCGCGCAACGCA
AGCGCAAGCTGAAGCGGAAATGACGCGCTTTTGAAGCGCGCAAACTGCGCGACA
AGTTAAGGCGCAAGGTTTGGTATTTTGGTCAACGCGCGCAAGATGCGGCTTTCGCGC
GTCTTACGCTTTGGCGGCTGGCTGCAACAGACATCGCGCTTCCGCGCTGCTGATGAAT
AATTAAAGAGCGACGCGGCTGAGCTATCAGCTTTGAATCCTGAAGAAGAAAAATCC
CGACTGGCTGTTTGCCTTGACGAGAGCGGCGCTGCGGGAAGAGGGTCAAGCGCGGAA
AGAAGCTTTGGATTAATTAAGCTTTCGCGCAACACGCGCTTGAAGAAAGAGCGCTGCT
GTACTCGTTCTGAACATTAATTTGGCAGCGGTTGGGCGCAAGCTGCTGAATCGAG

Appendix A

-467-

CAACAGGTTGCCGACGCTTTTAAACGGCGCAAAATATGAACGGCGGCAATTCGATGCCG
 TCTGAACACGGGATCGAAACCGCTCCTGTGTTTCAGACGGCAATGCCGACACGAGGC
 TTCAACAAAGGCTTTCGCTCCGACGGTTCGGACTGCGCTTTTGAATCTCTACGCCCT
 AACGCTTTTCCCTCTGCTTATGACTGCCAAACCTTTTCCCTCAACCTGACCAACCTGCG
 TGCTGCTGGCGGTGTTGTTGGCGTCAGCGCTGCGTGGCGGCTTGGCGAATTCGCGTGGT
 CTGATGCTGTTTCACTGCTCCGACAGCGACGAGCTCACTGTCATCAGCGCGCTGCCGCGCA
 CGTTTGGGATTGCTGACGGCGCGCTCGATGGCGGTGGCGGCAATGATTGACGATTTT
 TGATGGGCAACCGTTTGTGCAACCGCTCGATGGTGGCGGACGCGCAAGCGCGCGCTTTAG
 GTTGTGCTGTGAACGCGCTGCTGCGCGCGCTGCTGCGCGCAAAATGTCGGTTG
 CGCGCTTTCGCGCGCTGATCGGGATGTTGCGCTTATGCTGCTGATCCGCGCTCGCGCG
 CGACCGCGCAACTGATGGTGGCTTTGGTGGGATTAATTTCCGCGGTGATTGATGAGGCGG
 TAGCCACCTTTATCGCGTATGAANACGAATGCTGCAATGCTCGCGGTGCGGACAGG
 GCGATTTTTCGAGCGTGTGCTGGGCGGTACGAGCTGCTTGGATTACGGCGGTTTGG
 CGGTGTTGCTTATCTGATTGCGGACGGCTGACGATTTTGGGCTGGGCGAAACGCTAA
 GCGTGAATTTGGGTTTGAACGCGAGCGCGGTGTTGTTGGTGGGTTTGATTATTTGGCTT
 TGATTACGCGCGATATCTGCTACGGCGCAATATTCGTTTATCGGCGTGTGCTGCG
 CGAACATCATCGACCGCTGATGGCGGACAGGTTGCGCAAGCGCTGCTCGCTGGCTGCT
 TGCTGGCGCATCTTTGGTGTGCTGTGCGACATTATCGGACCGCTGATTGTTGTTCCGT
 TTGAATTCGCGTCTACGGTTTTTGGTGTATTGGATCGGCTTGTGTTTGTGGCTTT
 TGTTGAGGAAACCGCGCTATGCCCTCGAAATAATATGTTTATGCGAGGAGCAGC
 CGCGCTGTGGGTGCGCTTTGCGCTGTGCTGGTTCTCGCTGCTGTTTATGACGCTC
 AACTGTCAAGGCGATTTGGGATTTGTTTTCGACATCGCGGTGACCAACTTTCGCGCGT
 CTGATGGTCCGCTATCGGCTGCGGTGCGGTGCGCAACTCTCCAAAGCTGACCAATAT
 CGATCTGACCGCTCAATTTGGGTTTGGATTCGCTATGTTGTTTTCGAGCTTTGTCGATG
 CTGGTGTACGTTTCGCGCGCTGGAGTATGCTTCCCTGCGCTTACGCGCAATTCGCG
 TTTGAACGTGCTCATGATGGCGGCTGCTGCTGCTGTTCTACGCGCTATCAACAG
 GCGGACGCGATTTGTCGCGCATGTTTAAATCGCGCTGATTTCGCGATTTGTTGTCGCG
 AGCTGTGCTGCTGCTTTTCGCGCATGATCGATCCGAAGATTTACGCGCGGAGGCG
 AATATGTTTGGCGGATTCAAATACGCTGCACAGCGAGCTTTTGGCGATGCGCGCTGATT
 TGTGCTGCTGAGCGCGCGCTGTTTGGCGGACGCTACCGCTTGGAGTTTACCTTTTGG
 GGGGTGACCAAGGATCATGCTGCGGCGGACCACTTGAAGATCT
 CTTTGGATTGCGGATTTGGTGGCGGCGGACCGCGTGGTGGCGCTTGAAGTTTTC
 GGGCTTTCGCGCGCTGCTGTGCAACCACTTTTCCGCTCGGTCAACATTCCTGCGG
 CTGCGGATGACGGTTTGATCGCGGCACTCTCTTGTGCTGGCGGACGACCGTGTGGA
 CAACCTGCTGGTATGAGGCGAGTGTGAGCGTAGTAGAATTTGCGCGGAGCTGTT
 TCTCTCATCTCGTTTAAACACAAATAACGCGATGCGCTGTGAACGCGCGCGCGCC
 CGAAGGACAAACATATGACCAAGACGATTTCCGATCTTCTTCAACAGCGCGCGAC
 CATTCGCTGACGCGGATGCGCGGATTCGCGGACGCTGCGCGGAGCGGACGCTGAC
 TTACCGCTACGCGATGCGTGGCGCTGTGCGCAATTCCTGCCCGACCTGCGGCGCG
 GTACCTGATGTTTCAAAAGCTGGAAGCACTTTACGCGGAAGAGTCCCGGACGCGG
 CGGACATCGAAGCTTTATGACGGGCGCGCGGACGAGGACGCGTGGCGTAAACCGGCTC
 CGTCTGCAACTCTCACGGGCGGCGCGGCAACCGGCTTTGGCGGATCGGAATGCA
 GGGACGCTTTGCGCGCGCGCACCTCTATCTTTGGTGTAGGCGAATCAACGCGACACT
 GACCTGCGCGCGCAAGGACGCGCAACCGCTGCGCGCTGACGCTCAACGCGCGCTGCA
 ACCTTTCGACGCGGAATGGGGAATCATGTCGCAAGGCTGCGCGGAGCGGACGCGG
 ACAAGACTCGACAGCTTTGGCAAGCTTTCGCGACGCGTTAAGCGTTTAAACGA
 ATCGCGGACGACCGCGAGTTGCTCATGCTCGCGAAGTGTAGAGCTTCAGACGCGATT
 CGAATTTCAATTCGCGCTGTAACCGCGCAACACCAACAACTACGCGCGACAGCAT
 CGCGCATGATTACATCCGCAAGCTGAGTACCGCATGCGCACGCGCATCTCGACAC
 ACGTCAGCTGACATCCCGGAGGCGGATACCGCGCTGTCGCGCGCAACGTTGCGG
 GCAAACTCACCCCTTTTCTCTTTATGGCGCGCTGCGACCGCTTGAAGCGCGAGCATG
 CTTACCGAGCATGCTGACGCTGCGGATTCGCGGACGCTGCGGCAAGCTGCGGATGCT
 TCTCTACCGAAGAAACGATCATGACGCGCTGACCGCGCGGCGGACGCTGCTGATCTG
 CGCGTTACCCCTTACATCAAGCGACGCGATGCGGAATGCGCGCTATGCTTAAAGTG
 CAATCGAAGAAATTCACCTGCGAAGACTCTTCGACGCGCTACCTGACGAGCTTTCCGCG
 GCGCAACGCAACGCGCATGATTGCGATGGTGTCTTGCACAAAGCACGACTACGCTCTT
 TGGAGAACCGCTGAACAACCTGATATGATACGCGCGCTCGCTCATGCAATCTCTG
 GCGCGTGCAGCGGACGAACAGCGCACCGCTGCTGCTGATTGACGAGCATCAACAGG
 CAGCGAGCTAGCGGACCGCTGCGCGCATGAAACCGCGCAAGTGGCGCATGAGCGCA
 AAGCGAGATGACGCGCGGAGCATCAAACTCTTCTGATGATGATGAGCTGCGGCA
 TCCCTCGATTAGCAAGGCAAAATTTGGTTTCCACCATTTCAATCGCAAGAAAGCG
 GTCTGAACATTGACGAGCGCAACCATCTCTGACAAATTTAAGACGACGACCGGCGAG
 TTGACATGACGATAATATGACATATTAACAGATATTAATGCGCACTTACCTAACTGCA
 GAATTAATAATAATAATAATAATAATAATAATAATGCGCAATGATCTGATATA
 TATGCTCTCTTATCATATATCTTTAATATGTAACAACTTGGTGGGATAAATACTTA
 CAAAGATTTCCGCGCCATTTTATTCACCTCACAAAGGTAAAGCATGAACACTTTT
 CATCAAAATGCTGACGCGCGGACCTGCGCATTTCTGATGATGATGAGCTGCGGCA
 CAGCGAGCATGCTTAAGAAAGCTGCAATTTGGCGCTTGTGCTGCTACAGAAATG
 GCGCAAGATTAACGTTTCAAGCTGGAAGACCATCTACGACATTTGGTGAAGACGCG
 CAATTTCCCAAAAGACGCAACTGACGCGGATTTGAAGCGGACGACTTTAAGGTCTGG
 GTCTGAAATAAGTCTGACTAACTGACCAAAACCGCTCAATGAACCAACCAAAACGTCG
 ATGCCAAAGTAAAGCTGCGAATCTGAAATGAAGAAATTAACCAACAGTTAGCAGACA
 CTGATGCGCGTTTACGAGATAGTGAATGCGCGCTTGGATGAAACCAACGCGCTTGAATA
 AATTTGGGGAATAATAGAGCAATTGCTGAGAGCATGAAGCAATATGTAATAATG
 ATGAATAATGAGAGCTGGCTGATACGCTGCAGACGATGCGGAAGCATTAACAGATA

-468-

DGGCGATCTTACGTGGTGAACAAACATCAAGCAGCAGGAAGCGCTAAACCGCCGCAAT
 AAGCAACAGCAGCGCCGCAAGGAGAACCAACAACGATGCTGCAGAAATGCAAGCTGTCAG
 AAATCGCTGCGCGCAAAAGCGAAGAGTCGCGCTGGACACAGTATATCTGACGAAACGACAGG
 CGCGAGGTGCTGCTGCGAGCTTACGACATCAAGTCGATATGCTGTCGCAAGCAAGCTG
 GCGAG
 AAGAAACGACGACGAGGCTGTCGAAACAGCGCCGCTATGCGGATGCTTCCACATCTACA
 AACTGGGTGGTGGTATGAACGGCTGATCGCGGGCTACAAATCCGATGCGAGTGGATGG
 CCATGTCGGCTGGCTCCGCTTACGAAACATCTGCGCGCAAGCAGAGGCTGGACGCTG
 GCGCTGCTCGCGCTTGCAGAGGACATCATCTGCGGCTCAATTCAGAGTGCGTAGCAGC
 CATCTCCGATAAAGAAAGCGAGCGCTCGCAAGCTCGGTTTATTTTCTATTCGCGGCT
 GTACAGTGCGGCTGCGAGCTTCCGCGCTCGCGATGACGATGCGCTGCAACGCGACG
 GCGCGCTTCCGACAGCTGATCGGCAACACGACGTCGATTTGATTTGGCGGCAAAATC
 GACGGGCTATTCGCGCGCGGATATTCGATTTGCGCTTCTGCTGCGAAACCTGCT
 GAGCTTCGCGTAGCGTACATCGGCTATGCGCATTTCCGTGCAAGCTCGCGCGCATCTGCA
 GAGTTGAACGCTTTGCAATCGCTGGATTTTCTTCAAAATTTCTTTGAAACAACATCA
 ATACACACGCTCGCGTGAACAGGGAGCTCCCTCGCATGATGTGCAATCTTTAGGCAACAA
 AACCGACACATACAGCGGCTTGGCTGATATGACAGATTTCCAGCGCTTTGAGA
 GCGGAG
 TCTGAAACATTTCTCGCGCGCTGATTTTGGGCGGGGTAAGAAAGCTTACGACACG
 GAAATTTGGTATTTTCGCGCAGCAGGAAGCATCTGTCGGCGAGCTTGGAAGAAATC
 CAAGCTGTTGCGCGCGCAAGCTGTGAACAATGCGAGGAGGCGCGAGGCTTCGAT
 TTTTGTTCGCGCGCTTGGTGAATTTTTCGATTTTCTGCGTGGGCTCGAGGCGACCAT
 ATCGCGGAAATCGGCTTGGCGAGGATCGAAGCATCGAGCGGAGTATGCGGTGGTGG
 TCTGAGAGTCTGCGAGTGRACAGACACAAATCGGCGGCTTCTGCGCGACGCG
 GCGCGGAG
 TCCGAAATTTCTCGCGCGCTGATTTTGGGCGGGGTAAGAAAGCTTACGACACG
 ATAAACGAAATGGGCTGGACATTTCCGCGCAGGAATAGCATTTCTGTGAAATATCT
 CAGGCTTTGACGCGCAAACTCTCGCATGTTGATGTGATGTTCAAGCGAGAAACAGC
 RACACTTCGCGCAACAAATCTGACGCGCATCTCATCTCAAGCGGAGAACAGCGCC
 AATTCCTCTCTGGTATGACGCGACACACACAGCGGCGATCCGAGGAGCGAGCGGCT
 GCGCGGAG
 GCGCGGAG
 GCGGCAATCCGACAGCGGCGCAAGCTGAGTTCGCGCTGCGAGCGGCGCTGACG
 GCGCTTACGCTGTCAACTCATATTCGCGCATCAACACAGCTCGGGAACACGATAC
 GCGAAGCGGAGAACATTTCTCGCGCTGAGACATATGATGAGGCGGCTCGCGCGGCT
 GCGGCTTTCACGACAGATTTCCGCGCGCAACTCTTGGGCTATCTCGCATTTGAA
 GCGGAG
 GCGAGCATCTGACGCGACGACACATCAAGCAAACTCGCGCGAGGCTGCTGATGAC
 CAGCTGGGCGCGCGGCTGATGCTTTCGCTTGGCGCGCGCGGCGCTTCTCGATGATGAT
 ACACGCGAACAACGAGGCTTTGGACTTCACTTCGCGCGAAGCGGACACCCGAAATCA
 GAAACGCGCGCGGAGGAGCATGACGAGCTGCGTGCAGCATCGCGCAAAACCGGCT
 ATCTCCATCGACGACGAGGCGGGGCGGCTGTCTCAAGCTCTCCGGAATCTGTCAAT
 GTATCGACGCGCGGCGCATATCAAGCTCTGCGCGAAGTCGCGTTGAGAAACAGCGGCTC
 GCGGAG
 AAGATCTTGGATCTTTCGCGCGCTTTCGACGCGCTCTCGACGAGATTTGCGTGTGAT
 GCGACGGGATCGACGACGAGTCAATTTGAATACGCGAGGATTTTGTGCGCAACATCC
 GTGATCTTCTGCTGAGAGCTTCTGCGCGCTCGCGAATCCGCAAAACGCGGACCAACAA
 ACGGTTGCACGCTCAAAAACCGCTTACGCGGGGCAATGACATTCACATACGACGCGG
 TACGCGTTTTCGCGCTGCGTGTGCGTCAAGCAAAATCTCTGATACCATGGGCGCT
 CGAGCTGCGGCGGCTTGAGCCGCGGACGCAAGTGTGCGCGAATATCAATCCGATTA
 GCGGAG
 GCGGAAACGAGCCTCGCGCTTTTGATGCGGCTCTCGACGAGATTTGCGTGTGAT
 GAGGACATCAGCATCTCGGCGGCTCAAGCTGGGAGACGTGGACATCAAACTCTGCT
 GCGACTTGTGCGGCTGCGCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 GAGGCGCTTTCGCAAGCTCTCAGGATGGATTTGAGCATCTGCGTGGGGAACAGACG
 CTGCTGCTGAAACAGCTTTGGCAGCGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 AGCTGATATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TGTGAGAAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 ATGCGGCTTTCGCGCTTGTGGTCAAGTTACACAATATGAGCGGCGGAGCGGAGCGAGCATTTG
 GAGCATGAGCTGCTGCAAAAGCTTTTACAGCTGTATTCAGCAGTGTTGCGCGAAGAC
 AAGATCTTCGCGTATTCGCGACGAGCAGCGCGGCGCTTTTTCGCTTGTGGTGAAGAT
 TTTTTCGCGGCGGCTCGCGCTTGGATATGATTTAAATTTATGCTTGCACAAACATTT
 AGGTCACACATACGCGTCTGCTTCAATATTCAGGCTGAGAGGAGTAAAGCTTTGGCT
 GCGGAG
 TGTGAGAAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 CATATGCGAGCTCTGCTGCGGATATTAATCATTTATTCACACAGCGTGCATCAT
 TCGCGGCGCTTCTGACTACGCGAGCTATCGCGCGGCGGAGGCTGCGGAGATTTGCGGAGATTTG

Appendix A

-469-

CTGTTCCACCTGCTCTGGCGGACAGTTTGGCGGCTTCTTGGCGGACCGGACACGCTG
 ACATTGGGCGTGTGACGCTTGGCAAAATCTGCTGACGACATTCGCGGAATATCATCCGGC
 AGGAGGCTGGGCAAGTTTCAACGGACACTGTAGCGGAACGTTTGAATCGCTGAGG
 ATGTCTCACTGTTCCGAATCAGCGTCTGCTGATTCTGAACGAATTCAGAGCTCTCAGCGCTG
 CCTGTGCTGGTCTAGCCACGGCGAAGGCGCGCGGACTTGGCGGTTTACGGGGCGCAATATT
 TCGCGCGATTGGGCACTGGGCTGCAATACATCGACGGACAAACCAAGTGCACCAAJACT
 TATCCGCTCAACCGCAACGGCTCGCTCAAGGCATCGCGGGCTTATCAACGCGGACGGC
 CGCATCACATCATGATCGGCGCCACCCCGAACCGGCTGTACCGTGGCGCGCAATGAGCTGG
 AAACCGGAGCGGTGACGGCACTGTCCGGCTGGTACGCTTCTTGGCGGGGCACTGAA
 GCTTGGCGTGAAGGATCTTAAACCAATCTGAGATTTTCAAGATTTTCAAGCGGCTT
 CGCGCATACCATCTTTTAAACGGTATCTGCTCACCGAGGAACATCTAAGAAATCAACCC
 CGTCAAGCGCTTACCGCAACATGACTCTGGATGATGACGACGCAACATCGCGTCTG
 CGTGCAGCCTTCCGAACCTCTCGCGGCTTGGAAATCTGCTCGGCAACCGCTCATGCT
 TGGCCAAACATGGGTAACTCACCCCATCCGACACAGAGGGCGGTGGCGGGCACTCTG
 GCGCGGCTACATGGGAATCGCGCGTTTACGGGAATCGCATGAGGACGACACCGCACAC
 CGTAAACCGCGGACCCCAATCACTTTCGGGACGAGGACTGACGTTTGGGCAACAC
 GCGGCAACAGAGGACGCTGACGACCTGCTCTGCAAAATTCAGAGGACATGAGCTT
 TTTGGCGGACACCCCTTTTTCGCGCGCTGCGGACCGGCTTTACGGGCAATCGAACA
 GCTTTACGACGCTTCCAAACGCTTCAACCGCTGCAACGCAACCTGCTTCTATCGGG
 GCACGAATACACCGCGCCAACTCGCTTTTCGCGCGCATATCGAGCGGCAACCGCGCA
 CATTACAGCGCACTGAAGCGGGGCGCATACGCTACCTCGCTGCGCTTACCTCGGCA
 CGACCGCGCGCTCAATCGCTTTTTCGCGGCTGACCTGCGCGACGTCAGACGCGCGCA
 GGCATTGAGCGGGAAACCTTTAAACGACGCTCGATCTTTGTGCGCTTGGCGTGGGTGAAT
 TAAACCAATTAACCAATTAACCAATTAACCAATTAACCAATTAACCAATTAACCAATTA
 ATTAAATCTTAATAAATATACAACTATCGCAATGACGGAAGGACACCTTGTCT
 TATAATCAACAAACAAATAATAATAATATGAGTTGAATTTAAATCAGGACAGGG
 GACGAAGCGGACGATAGTACGGCGAGGCGAGGCAACGCTGTACTGTTTGTGAATCCA
 CTATATTGTTAATCCATATATAATTCAGCACAACGGGATCGTGTATCTTGTGCGG
 AAGATCGTGTGATTTTCTCTATTACAGGATATCATCATGCGCTTCACACACACCC
 CATTTTGTCTGATTTGTGCGACCTGGGCTTTTGGCGCTTCCGCTGTACTTACTATCA
 TGTGTCGCAAGATGTGACATACATATTTTCGCGCTTTCGGAATTAAGGGCGT
 TCACTGATGCTGACGCAATTTTCACTGACGAGGACGCAATTTACGAGG
 TTTCAACCGGATCCCATGCGGACTTTCGCGCTCAGCAACCGCAACCGCATCGGCA
 CCTGCTTACCGCCCAATACGCTCAACGCTGCAACGACGCTGCGGCTACGGTCCATAC
 AATTGGGCAACGACCCCAAAATCAGAGGAACAGGCTATACCTACGCTCGTATCAC
 GCAACCGGACCGCGGACTACGACTACCTTCCCGGCTCAACAACTGTTACCGAA
 TCTCACTACCGCACTCAGCAGCGTACCTTTGCTGGAAGGCGAGGCAAGGCGCAATG
 CTTACTCTGATACCGCGGCTTCCCTGCTTGTGAGCTACGCTTACGAGGACGCAACG
 TCGCAACGAGGACGCAATTTACGACGACGCGCGGCTGCGCTTACGATCTGACGCGG
 GACGCGCGTGAAGATTGGGCTTCCAAACGACGCTTACTCTGCGGCGGCACTGGA
 CGGACCAACCGCTTAAACACTACGCAATCGCGGAGGACGCGGTTCCCGCTGTTTGGCT
 TCGCAAGCATGAAACCGCTGGGCTTTCGCGGCGTACTCAGCACTACGCGCGGCTTGG
 ATAATTTCTTCAACAAATACATCTCAGCAACCGGAATTCATCGCTTCACCATCGCGC
 AATACGAAACCGGCTGGATGTCGGGCTGACCAACGAACTCATATGCGGCGCAACG
 GATATGGCAACGACCTTGCAGAGGCTCAACGACGCTACCGCTGCCATTTCAAACT
 GTTCTGCTTGGCGCAAAAGGACGACGCAATGCGCTTGAAGATTCGCGCAACG
 TCATCTATCAGCAGGTTCCGCAACAAACATCTGACTGCGCAGCAATATCAACAG
 GCGCAGCGCATTCGAGTTTCGACGACACTTCAACGCTGCTGGTAAACCAACATGCG
 AAGGTGAGGCGTTATCGTACGCGACGCGCAACCGCTTCTGGCAAGTCAGCAACCCCA
 AAGGCGACCGGCTTCCAACTGGGCGCAGGCACTGTTTCGCAACGCAACGAGCATCA
 ACCAGGGCGACATCAGCATCGGGGAAGGCACTGTGCTACTCGCCCAAAAGCTGTTTCA
 AGCGGCAACAGCATTCACCAAGTGGCATTCACAGGCGGAGGCGGCGCGCTTC
 TGGCAACGCGCAACGATTCGAGGATATTTGGGTGAACAGGCAACGCTTACGAGGCA
 TGTACTTCAAGCGCAACACTTGTGCTTTACCATATCGGCAATGCGCAATCGAATGCGCG
 TATACGCGCGCGGATACGCTTCAACGCGGCACTCAACCTGCACTATGCTCCCAAC
 GCACCGCAGCAGCTGCTTCTCAAGCGGCGCATGAACCTTACGGGAGGACTTGTGATTG
 AGGCGGCAATATGATTGTGTGAGGCGGCGGATACCCATGCTCTACGACACCGGCA
 AAGCGAACCGGCTTCTTGAACCAAGTGAACGCGGCACTTCAAGGCTGCAAGGTTCA
 CCTGCGCAACCACTGCGGCACTGACGCGGCAATACCGCGCATTCGAGCGGCAACA
 TAAACGCAATGATCTTGGGATATTTGGGTGAACAGGCAACGCTTACCGGCAACGAGAT
 GCTGCTGCTCTGATCTTGGGCGGCAACGCTTACCGCAACGCGCTTAAAGCG
 AAJACTATCTGCGCTACTTCCACGCAAGTACGCGGCACTTACCTTAAACGACGCT
 CAGAGCTCGCGCTGGGCAAGCACTGATGACGCGAGACTCGCTGCGGCAAGGACGCG
 CAGTCCGATGGAAGCAGACGCACTGGAACCTTCCAGTCCAGCAGCAGCGGCGCAC
 TGAAGCTTGAAGCGGCAACAAATTAACCTGAACCGCGATTTCGCAATATAACACAAACA
 ACCGCTTCAACACTGACCGCTCAACGCGCACTTGAAGGCTTGGCGCATTCGATTC
 TGAACGCGATGCTGCGAACAACAAATGCCCCCTTCAACTGGAAGGGGACGCGCG
 GCGGCTTCCAAATCAAGTCAAAAACCGGCAAGGACTTAAACAGCGAATCGGTTG

Appendix A

-470-

CACTTGTGAGCCTCAATCGGAACACAGCCACCAAGCCGAGTTCACCGTCCAAAAGGGCT
 ATGCCGATTTTGGGTGCTCTTCCGCTACATCTCCGACACACAGCGATACAGCTGT
 ACACACCGCTCAAAAGAGCCGCAACTTAAATGAAGCCACCGCTGCGGAACATGAGGCA
 ACCAACAGGCATACACCAATTACAGGCAACCGACATCAGCAGACAGGTTCAACATGACT
 CTGACGCGCAGGCAAGGCAGCTACAGCGCTGGCAGACAGCTCAACCGAACTTGCCGCA
 TCGACAGCCAAAGTCCAAATATCTGTCGCGCCCAATTGAACAGACAGACCGCTGACCGGCA
 TTCTGACGGTGGCCAAAACCTGTGTCCGCAACAGGATACAGTGGCGATATCTGCGCTC
 AGGTTGCCAAAGCCGCGCAGCAAGCAAGCACTGACATCTTGGAAACCGAATCGATATGAT
 ATATGAAGGTGTGAAGAAATGGCGGATTCGACATCTGACAAAGCAGCAGAGGGCGGTG
 CGCAACCGCTGACAGAGCCGCAAGCTGCTGACAGGCTACCTGACAGGCTCAACCTGTGTGCG
 AAATTCACAGTTTGAAGAACCGGCTGTGCGGCTACCGTATGCCGAACCTGGCCGAACCTGA
 TCAGCGCGTGGCCCAACACCGCGCTTTCCGAACAGGCGCGCTACATACGCGCGCGCAAC
 AGGCGGGAGCGCGCATCGACCGCCACCTTACCGATCCGACAGCAAAACATCTGGCTGG
 AAACCGGTACGCAACAAACCGACTACCTAGCGGCAACACCGCTCCCTACCAACAACTA
 CCAACTATGCATATCTGGCATCAAAACCGGATCACCGCGCTCTGCTGTGCGTATGCA
 TTTTACCGATGAGGCGCAAAACACCGCTTTGATGAAGGCGTATTCGCGCCGAACCGCA
 GCACGCGCATCTCTTGTCTCAAGGGCAACAGCGCTCTTTTCCGCGCGCAAT
 TAGGCTACAGCACAGCCGTACCGGATTAACGATTATGACGGGGCTGCGCTCCGCGCGCC
 ACGCATGGGATCGAGGCATCAACACCGGCATCAAAATGATACCGGCATCAACCTCAGAC
 CCTATGCCGCGTACCGTATAAACCGCAGCAACCGCAACCGGATGACTACTCAGCGGCGAG
 AGATAAACCGCGCGCGCAAACTCAAAACCATGGCATGCGCGCATCTGCTCGATAAA
 CCGTCCGAATGGGTCAAGCCAAAGCTGACCGCCCGCTTCAGCAGCGATTACTACCATCC
 GCGAAACAGCGGTTCCGCGCTCAGGCTCAACGACGTACCTTACTGCGAGCAACCGCC
 ACGGCACTGCGCAACGATGCAACGCGGATGCGCAACGAGCGGCAACCGCAACTC
 ATGCCGCTTACGCGAAAGCAGCAACACCGCGCGCAACAGCGCAAGGATCAAAATAG
 GCTCAACTGCTGACAAAGCGGATAAAATGCCGTCTGGAACCGCGCTTTCAGACGGCAT
 TGGCTTAAAAATAGTAACCGTTCCAAAAGGGATGAAATAGTGGCTTTCCAAACCTGCG
 GCGCTACCGTACGGCTTTATTATGGACCTTCCAGTTCGTTTACTGAAACACCCAT
 CCGATTCAAAACCGCAATACCATACCTCCGCGGAATGCTCCCGCGCACAGCGCGCGGAG
 CATTTATGAGCATGCAACCAACCGCTCGACCTTGAAGAACGCGGATCGAAACGATG
 TAGAACCGGTTTCTGCGCTGCGCGCTGCGCTGCGGATGCGGATGCGGACCTG
 CTTTGAACAAATCGAAACCGGATGCGCTCGAGACGCGCGCTGCGCGCAACCTGA
 CCGAGCTGACGCTCTTCTGAGCGAGCTGCAACCTGCGACGCTGGCGCGCTATTGGAT
 CGCTACCGCGCGCGCAACGCAATATGCTGTGGATTCTGGTCAACCGGGAACGACGCGG
 AAGTATTGCTGGAAGTATCCGACCGGCTGCGCAACGCTGATCGAGTGTATGCAACAG
 ACGAATTTGTTGGCAGCGGTGATGATTGGAACGCGGCAATGGCGAATGCGGACG
 ATTTGGCGCATGCAAGTGGTTTACGAAGCGCTCAACACCGGATGAGGAGACGCGCG
 AAGTCAAAAGCGCAATGCTCTTACGAGACGCAACCTGGTGGGATGAGGATGAGT
 TGCTGACATCGCGCGGCTGCTCTGAGTGGCTGCTGCGCTATCTGCGCGCTCTG
 ACAGCTCGCGCGCAGCATACCGCAAGATTTTGTGCTGATGAACGAGCTACTGCAAG
 GCGTCTGCCATCCGCAAACTTTTGTGCGCGCTCCGAAGACTTGGTGGAAAAGTGA
 TGGCGAAGAGTGTCTGCGTTTCCGCGCGAAGATGACGTGGAAGAGCGCGCGCAGCGGT
 TTGAACGCTACGACTTGGTATCCGCGCGCGTCTGATGAACAAAGGCTCATCGGCA
 GGATTACATCGACGAGATGGTGGAGCTGATCGCGAAGATCGGAAGCGGATATGCTGA
 ATATGGCGGTTTGGCAGAGGAGGAGCACTGTTGCGCCCTGTGTGGGATTTGGTGA
 AAGCTGGATGTGCTGCGCTCAACCTGCGACCGCTTCTGCGCAGCGCTGTATGCG
 GCGGTTTGAAGCGAGCATCGAAJAAATGTCGCACTCGCGCGCTGCGCATCTGCG
 CCGCATAGGCGGATCATCGGCGCAACGAGCATTACCATGATTCTCGCGCGATGGCGA
 TGGGCGAGCTGACGGATATCGACGCGGGGCGTTTCTGAAGAAAGAGTGGTGTGCGCT
 TGGTCAACGGCATATTGGGGAACGGTATGGCGCAGTATCTGGCTGCTTACGCGCA
 GCTCGGCACTGGGCTGTTTATGATTGCGCGCATGACGCTCAACCTCTGTGCGCGCA
 CGCTGCGCGTATTATTTCCGCTGGTATGGAAGATGCGGACGCGTTCCGCACTGGGCA
 GCTGCGGATGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CGACCTATTTCTGCTCTTAAATGCTCTGAACCGCGCAAAATGCGGCTTGAAGCGGA
 AGCTGCTTCAGACGGCATTTGACTATTATCTCTGTGTCAGACAGGATTTGAGCGGATG
 CGCGGCGAGCGCTTTGGCAACGCGGACACATCTCCCGCAACAGCGGTTGACATCGGT
 TTGCTCAACACATATTGCTGTGGCAGAAATCGCAATCGACTCGATGCTGCTTGTGTC
 CACCAACACGCGCGCAGTCTCTTCCCGCGCAGCATCAACAGCATATCGCTGACTTTGCC
 GCGGACAGGTCATGAATAATTAAGGTTTCCGCTGACACAGCGCGCGCGCTGCTGCT
 GTGAACAGGCGGCTATAAAGGCTGTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCT
 GCTGCGCGCGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 ACGCTGCAACGAGACGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 AAGCTGTTGCGAAGCTTTTATATAGTTTCAACAACTTTGCGCGATACGCGCGCTTCCAA
 AGGCACTACGCGCTGCGAGGTTTCCGCGCTTGGGCTGACGCTGACGCAATACGCGT
 GCGCTGCGCCAAAAGGTGCGCGAGGCTTGTGATCGGCTATTCTGCGGTTTGTGCGCA
 CCGCGCGCTGCAACGAGGATGCTGCTGGAAGCGGCTTCCGCAACGAGCATTTTACGCGC
 CCGCGCGCTGAGCTGCAACATCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CACCG
 CACCG
 TTTTCAATGCTGCTGCCACAGCTTTTTCAGACGAGCTGCAACCGCGCGCGCGCGCGCGCG
 GTCGAAGATAAGCGGGTACGACACATCGCGCGGTTGATGCGGTTTATTGATCATGATTT
 CTCTGACTGATTGTTGGATGCGCGCTATAGTGTGCGGCTGCGCGCGCAACAGCGGGA
 CGCGGGATGCGCTTCCCAATATTATCAATAATATATAJAAATCAACATATAAATCAAT
 CTAACAGCGGTTTTTGGCAACAGCGCTTTTTTTATATCAATACAGACGATATTTTC
 GACTGATACAGCAATACATCGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 GGATCTTTTTTCAACCGGCGAGTTTGGCGGTTTTTGTGGTGAATTTTGGCTGCGCG

Appendix A

-471-

CGCCCTTGCAGCAGGTTGACCAACCTGCTCAGCAGCGCGGAGACACATTCTCAGACAGTT
TGCAGAAAGCAGCAATGAGCCCTGCTTTTACCACTGACGAGCCCTCGCGGGGAGGCA
TGCAGCAGCACTCATCGCGACGGGATGCGGCTTACGAAACAGCCGGTTTACCCGCTCAA
CCGAGTCCCGCCCGCGCGGCGGGCAATGCCGACGACATCATCGGACAGCGATGGGGCT
TAACGAAACAGCCGCTTTTACCGCTCAACCGAGCCCGCCCGGGGGCGGCAATGCGGA
CGAAGCTATCGGCAACGCGATGGAGCTTTTGGGTTATGCTACCGCTACGCGCGACATC
GGTTTCTACCGGTTTGTACTGCGAGCGCTTCATCGACGACATCTTCAACCGGCCATGGG
CATCAACCTCGCGGCGACGTGCGGACAGCAGCGACGATGGGATACGCGGCTTGCOCGAG
CGATTTGCAACCGGAGATATGGTCTTTTCCGCGAGCTCGGGGCGAGCGCATTTCCG
TGTGGAGCTTTATATCGGCAACAGCTGCTCATCGCGCGCGGCGAGGGGAAATAT
CGAATCAACAGCTGAGCCACAATATTGGAGCGGCAATACGCGTTGCGCCGCGCGGT
CAAGAAAAACGACCGCTCCGCGCTTTCTGAAGTATTCCAGGAATACGCAATGAGTAT
GCGCGAAATGCCAAATGGTACGACGATGACCGACAGATGTGCTCTGTACCGAAAGGT
CAAAGTGATGCTCGAAATATGCGCGAGCTGTATCAGACGGCACAGACGCGTTGAAGA
CGCGCTGCTGATGGGTTGCGGGGAACTGACGTGCGCGATTACCTGCTGCGGCTGATTGA
AGGTTTGGAAAACTCCATACGCAAAAGTCTGAACAGCCCGGTTGCTGGCGCGGCTTTA
TCCGGCGCTTTTATGCTTGTCCGGGCTTCGCTTTTCAGACGATATTGACGCTTA
TGATTAAACAGTTAACAAGATTATCAACAACGCCGTCAAAAGACAGACACACAATAGAA
CATCATCGCGCGCTCCTCATCATCTCGGCTGCTGCGCACCGGAAACCGCGCTTTT
CCTAGCAGGCATCAAACTGCCCGGACGATCGTCCGATGGGCTGCTGTTTGGCTTTT
GCAGCGGGTGGGTCAAACGCTCTTGGCTGCAACAGCTTACGACGCGCTGATGTCGAA
CCTGACGCTGTTCTGCTGCGCGCTCGTGGCGGCTATCAGCTATTGCGATTGATGTA
CGAGCATGGTTTTCGATAGTGTTTCCGCTTCGCGCAGCAGCTTTGTGCGTACTGCTGG
TACGGGCAATGCTGCTGATGATCGGGGCTGCGGCAAGAACTCTCAGGCG
CCGAGCGTTCTGCTTTCTCAGCGTTGCGGTGACGCGCTGGCATTTGCTGCGGACG
GCGACGGGCAATATCTTCTGCAACCGCTCATGCTGACGACTATCTGTGATTGCTGAC
CTGAAATCTCGTGGTATCGATTAGTGGGGTACACACACGCGCGCAATTCATTGATTT
TGGCTGAACCCGCGCGCTGCTGCTGCTTGGCTGCGGCTCTACCAAAACCGCGCTAAAATC
TTCAACCAAGTGGCTGCCGCTCATGTTTCAACAGCTTGCGGGACGCTTACGGGCTTGT
ACAAGGATGTTATTTGCAAAATGCTGGGCGGCAAGCGGAGCTGCTCTTCTGCTGCGG
TCAAAATCTGTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CGATTACCGCGCGCGCGCTCATCATGCGCGCTGCTGCGGACAGATTGCGGTTACAAA
ATGCTCAAGAACACGGTCTGCTGCGCTGCTGCTGCTGCTGCTGCTGCGGACGCGCTTG
CAGCGATGGGGATTGCCGCTGCTGCGGACGCGCGCGCTGATGGCGCATACGCGGGG
CTGGGGCTGACGTTCAACGGGCTACTGACCGCGCTGATTGCGCGGCTGCTCATCCCGTT
TTGGGATTTGAACCGGCTTTCAGACGCGATTTCAGCCCATGCTGTGTGAACGCGGACACA
CTCGCAAGGACAGCGTTATGGCTGCTACGCTGCGGAGCGGAAACCGGAAACCTGCCC
CTATTCCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
GACCTGACGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CGTTTCTGCTGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CGCGCTCTGCTCAACACGCGGACAGCGCAACGCGGATACGGGCGCACAGGCGAGAAATC
GATGCTTTGGCAGTGTGTGCGCGCGCGCGCGCGCAATCGGCTGCAACCGAACCGAGTG
CTGCGCTTCTCCACCGCGCTGATTCTCGAACCGCTGCGCGGACAGAAATCATCGCGCGC
CTGCCCAAAATGACGCTGCTTCTGGAAGGAGGCGGACGCGCATGATGACACCGCGAC
ACCGTGCCTAAAGCGCGCTTCCGCGGAGGCGAGCTGGGCAACAAACGCTGCGCGG
ACGGGACGCGCAAGGCTCGGGATGATTATCATCATGAGGCGCATGCTGCGGTTCT
ATCGCACCGGATGCCAAAGTTTCCAAACCGCTGCTCAACTGATGACGAGGAAATCGCG
GACGAAACCTTCAACCACTCATCGGTTGACGCGGACACGACGCAACGACAGCTTGGCT
ATCATCGGCAACCGGCAAAACAGCAAGGCGAAATGCAACATCGCGACCGCGCTTAC
GCCAACTCAAAAGATTGTTGTGACGCTCGCGCTGCACTGCGGCAAGCATCTGTCGCG
CAGCGGAAAGTCCGACCAAGTTTATCAACCGTCCGCGCTGAAAGGCGCAAAACCGGCGAC
GAAGCGCGCAGCGCGCTACGCGTGTGCACTGCTGCGCGTGTGCAAAACCGCTTTCTG
TCTTGTGCGCGCGCTGCTGCGCGCGCTGCTGCGCGCGCTGCTGCGCGCGCTGCTGCGCG
CTGATACGCGCTGCTGCGCGCGCTGCTGCGCGCGCTGCTGCGCGCGCTGCTGCGCGCGCTG
CGCGCGCAAGCTACACCGGAAGCACAAGGCGAGGCGGATGATGTGAAGGCGGAAATCAAC
GTCCGCTATCAAGCTGATCGCGGACAAAGCGCGCGCACGCTATATCTGCGACCTGTG
CAGCGGATACGTTTCCATCAACCGGATTACCGTTCTGACCGGACACGCGCTTCAAGCGGC
ATACATAAAATGCGCTGTGAACCGCGGACAACTACCATGACCTGCACATTTCGCCGCGC
GCTTGCGCCGCAAAATCGCCCAACCCGCGCTGCTGCGCAAAAGCATGCTTTCTGCT
TCTTTTGGCAGGCTGCTGCGCGCGCGCTGCTGCGCGCGCTGCTGCGCGCGCTGCTGCGCG
ATTTTGGCGCGGCTGCAAGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CGCTTCTTTGGGTTTACCGCTTATGCTGCGGCTCAACGCGCAATTCGCCGCTTCAAGG
CGCGAGCGGATCTCCGAGGTTATCGCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CGCGCTGATCGCGCTCGCGGACAGCGCTGCTGAAGATTTCGCTTAACCTTTTGGGTATGCT
TGTTGCGCGGCTCATCGGACGGAAGTCCGCTGCTGCGAGGTCGCGCGGCGGCGAGTGATGG
GCGGCTGCGGCGCGGCTGCTGAAGAAACAGGCTTGGCATTCAGAGGATGACGAAAGAG
ATTTGATGCGCGCGCGCGCGCGCGGCTTTGCGCGCGCTGCTGCGCGCGCTGCTGCGCGCG
GCGTATTTTGCGGATGAGGATCTGCGCGCGGCTGCTGCGCGCGCTGCTGCGCGCGGAGCA
TCTTTTGGCGGCTGCTGCGCTTCCGTTTCTATCAAGGCTGCTCATCGAGGACACACCGCT
ATTTTTCGCGCTTCAACGCGCGGCTATTTGGAACATATCTTCTGTTGGGTCGACTGTGCG
GCTGCTTTTGGCGCGCGCGCGCGCGGCTGCTGCGAGCTTGTCTATCGCGGCTGCGCGG
CGTTTGCACCGCGCAAGATACGCGGCTTCATCGCAACGCTGCGCTGCTGCTGCGCGGCGAC
TGATGGGGTGTGCTGCTGCGCTGCTGCGGAGCTTCTACAAAGGCAAAACGATACGCGACG
GCTACCAAGAGCGCGCGCAAGCGCTGACGCGCATCTGCAAGGCGCGCTTTCGAGTCTGCG
CGCGCAATGGCTGCGACCGGATTACGATTTGGGCAAGGCTTCCGCGGCGGCTTTTCA

Appendix A

-472-

CTCCTCGCTGACCATAGCCGCGTTTGGCGGAGCATATCGCCGCATCGCGGCATAT
 CTCAGGGTCGACACATTCCTGCTTCATTCGATGSGCGCATTTCTGGCGGCGCCACAC
 AATCCCGATTTACCTTCCTGCTGCTGATCAAAATGACGGCGGACAAAGCTGCTGT
 TTTCGATCGTAATTTGCTGCATTTTCGCTCGCAGGTTTCGCGCCAGTTTCGCCGCGCTC
 CGTTCTACACGCGATCGGGAATGCGCTTCGCGCAGCGCGTCTTCAAGAAACCGCGCC
 AAACCGGCATGCGCCCGCAAGACCGCAACAGCAACAGCAAAACGGGAATGCCCTCTG
 AMAATTAAGACGCCCGCGATCAACGCGCGCAGCGCTTATTGTAATCGCTTCGCC
 CGCGCTTCAAAATTCAGCAACANTCGCTGTGAACGACAGAATCGCGTTTTCAGAGGCA
 TTTCGCATCCGATATTTGGCTAAACAAACAGACAGAGGTTTGCATTAATTTCTTTTGA
 CGCATACCGCAACAGATTTCCGCAATTCGCGATTCGCGCAACGCTCCAAAGACGCGACT
 TCTCGCTTTCGCGCTCAAAATCCCAACAAATACGCGGTTTGTCCAAATCGAAGAAA
 AATACCGAAATCCCAAGAAATCTTTTGAAGCGTTTGGCAGCGTTTGCACAAACCGCAAT
 TCGACAAACCTTCGCCCTTCACGAGACCTCGAAGAAATCAAAAAGCATTTGCCAAGA
 ATCAGGTAAACGATTATTTGCGCGCAAAACCGTTTCGGGCAAAACACGAGTTGCCAAGA
 TTTCGTTTGAACCTCGGCCGTGGGCGCGCAGGATTAATCGGCGTATACCGCCGCGCGCTT
 TGGCGCGCGCTCTGAGACAGCGCGATTTGCCGAGAGCTGAAATCGAATTCGGAGCG
 CGCTGCGTTATTAATGATGCTTCACGCGACCATCTCGCGGATCTCGCTCAACCTGA
 TGACCGACGCGATCTCTGCGGCAAAACGACAGCGACCTTATCTCGCCGCTACGACA
 CGATTATCATCGACGAAGCGCACGCGAGCTGAACATCGACTCTCTTTTCGGCTATT
 TGAACAACTCTCTCGCGCGCGCGCGATTGAAAGTCATCATCTCGGCAACGATAG
 ACGCAGACGCTTCTCCCGACACTTCAACGGCGCGCGCTTTAGAAGTAGCGGACGGA
 CGTATCCCTCGAAATCTCTACGACGCTGACCGGCAAGAGCGACGACGAGAG
 TGGATTTGACCGAGCGATTGCTGATCGCGGCGCAATTAAGCGGACAGCGGACGAGG
 ATATTTGGTATTTGCGCGCGCGCGCGCGCAATTCGCGAAGCTCGAGAGCTCGCGA
 AATCGACCTCGCGCGCGCAACGACGAATCTCTCGCGCTGTCGCGCGCTGTCCACCGCT
 AGCAGCAAAATCTTCCACCCCTCAGGCGGCAACGCGCATCGATTGGCAACCAACG
 TCGCGGAAACCTCGCTTACCGTTCGCGGCGCATCAATACGTCATCGACACGCGCTCGCG
 GTGTTAAACGCTATTTCGCGACGCGGCAAGTAGGAGCGTTTATATCGAAAAATCTCC
 AAGCGCGCGCGCGCAACGATTCGCGCGCTCGGAGCGCTCTCGGAGCGCTGTGTATCC
 GAGTGTTTTCAGAAAGAGATTATTAACGCGCGCGCAATTAACGCGCGAATCGCTCG
 CGACACCTCTCGCGCGCTTCTGCGCATCGCGCGCATTAATCTCCGATCTCGCGA
 CATCTCGCTTTTATTAATCGCGGATTAACGCTATATCAATGACGCTTTCAGGTGTGT
 TGGAGTTTCGCGCGGTTGAGGCGCTGTGAACAGGCAAGACATAAAGAAATCTCGCGGT
 GAGTGATGTAACTTACCTTCTCTTAAATAGTAGAAATGTTGGGTTTACCTCCCGCC
 TGGCGCTACTAAJAAATATAAGTAGTAACAACTTTTGAAGAAATATGATGACGA
 AATTCAAATACCAJAAATAGTGAATTAACAAACATAGAAATGAJAAATGTGTTT
 ATCGAAGGCTCTACCGATTTATGCTGCTGCTGACGACAGGGAACAGATTAAC
 TGTGTTATTAAGAGACATTAAGGAAGAGACAGATTTTCGCGCATAGAGATTA
 AAATTAACCTTAAGTACATAAATACGCAAAAGGCGCAAAAGATATCTCTTA
 TCTCAGACCTGGATGGAACTGATGATCAATAGAAATATAGATGGATATAA
 CTCATATACTACTTACTCAACGATTGATGTTTATCAATATTTATTCGCTCAACA
 AATAATATTGCGTAGCAAAATATCAAAAGCTCAACGTAATGAJAAATGATACCAATTC
 AAARACAAAGCTAGATATTTCGCAAGAGCATGCGAAACATTATACACACAGAAAT
 ACATATTACAGCAGATGATTTCAAGTCTCTGCTGATGATTAATGAGCAATTTATCTGC
 CTCAAATAGTGAATGAGGAGACGACGACTTTCTATATTTCTGACAGTTTGTCAAT
 TGAAGCGCTTCTGCTTAATTTTGTAGCGCGAATGATATCATAAATCAATAT
 TTCAAATCTAGGCAATAAATGAAGATTAACGACTGATGTTTCTTAACTATAC
 ACACGATATGAATTTGCTGCACTCGAGTAGCTAAAAATATGTTATCAGAAATATTA
 TCGGACCGCTGCTTGGATATTCTGAAGTCTCGAACTAATTTGATGAAGAAACAT
 AACGATGATTATAGTAGCGCTAAGCGAATATTAATTGTTGAGGCGCAATAATAGTT
 AGATATTGCTACTTACCGCTATTGTTATCTGATTGACCATATACCGCAAGGGGATG
 CAAGAGTGTCTTCACTAGTATCATGCTGAAATTAATGATTAATGAATGCCATTATCT
 AACTATAAATGATGATTTCTGCGATTAATGATAGTAAAGAGATGAAGAGACT
 ATTAATTAATTTGGGTATTACATTTTACTCTGTATCGGAATGAAATCTTTTACTT
 AACTGATGTAGCAAAAGATATTGAACATAATCAATATTCACNTCAAGATTAACCA
 TAACTTAATGGATTAAATCGGAATTAATTAATATATAGATAATGAATTAAGAGCA
 TAAATTAGACGAATTTGTGTAAACAGGTTGACGTAATAATGATATTAATTAARAA
 TATTGATTATCTCCAAATAACAGTACTGATATGAJAAATCATTAATGAJAAAT
 TTCTACTTTACGAGACAGAAATTAAGACATGATTTCAAGAAATTAAGAAATTAATCA
 AAGATGATTAGACACAGATTTGATTAATTAATTAATTAATTAATTAATTAATTAAT
 TTGGCTTAATGATGATTTTGTAAAGCATGCTGAACAGCAATTAATTAATTAATTAAT
 CAGACGGCTTAATCATGACAACTAAACATTAATTAAGAGGAATTTGGGTTTAA
 ACTCAATCGCTAAATTTTATTGGAATTAATGATGAJAAATCTTCTCTATGCT
 GTTCTGATTTGCTTTTACTTACCGCGCAGAAATGCTATGCTGTTGATTGGGAT
 GAAACCTTACCGCGCGCAAAATTTGCGGAACGTTTGCCTGACATTGTGATTGCTGCG
 CTGATCTGTTTGGCGCTATAGGTGACGCGTTTGTGATTCGCGCTTTTTCGCTTC
 AGCATTTTGCACAAATGTGATTAACGCTTTATCAAACTGGATGGAGGCGATCAAT
 TATTGCTGATGCGAAGAGGTTACCGAGTTCGCGCGCGGCTGCTGATGTTGAT

Appendix A

-473-

AAGTTGTGGCTGCTGTGTGTGGGGGCTGTTCGAAAGTCATGTGTTTTCGACGCTTGGC
 AGGTTCCGCGCTAGACGATTTTTCCTCGCATATCTGTGGCTTCTCATGTGATG
 ATTTTCTGGCTGTCTGTGACACGAAACACGACACCGTATTCGCGCAAAACGACATAC
 AGCGCGATCAAAACCAATTATTTCAGCTTCGGTTATTTTGTCCGAGCGGTGTTCGCGTAT
 CAGTTGTTGATTAAAGCAGGATTCGCGCTTTAAGCAGCGCTGCTCAGCAAAAATCGGG
 CAGGGCGAGTGTCAAATATCTGCTCGATTATGGCGAAAGCGAAAGCGCGGCGATTG
 AAGCTGTTTGGCTACGGACGCGAAACTTCGCGCTTTTAAACCGGCTTCGCAAGCGGAT
 TTTAAGCGGATTGTGAACAAAGTATTTCGCGAGGCTTATGACTCGAGTGTTCCTCGGCC
 AGTTTTTTCATCGATGCTACGACGACCAAGCGCTTGGAAACAAATACGCGGCGGATGAC
 AATATTTTCTGGCGGACGCAAGAGAGTGAACAGCTATTTTACAGCGCGAGGAGG
 GAAACAGAGATGGCATTTTGAATTAATCGGTAAAGAAATGGTAGACATCTGATTCAG
 CGACGCAACTTGGCTACGGCAACGGGCAACAATATGCCCGATGAGAAGCTGCTCGCGTGT
 TTCGACAAAATCAATTTTCGACGAGGGCAAGCAATTTATCTGTGTTCGACCAACCGCGTTCG
 CACGCGCCCATACGGCGCATTTGTTCACCCCTCAAGATAAGTATTCGGCAGCGCATATT
 GTGGATAAGTACCAACAACACCTCCACAACACCGACCAATGATTCAAAACCGTATTTCGAG
 CAGCTGCAAAAGCAGCTGACGCAACTGGCTGTGTTTGGCTATACCTCGATCATGGCAG
 TATGTTTGGCAAAATCTGACATCAGGCGAGTGGACGCGGAGCTATCTCTGCGG
 CTAGTGTGTACAGCTCGGATTAAGCGCTGCAACAGCGCTGCCAACCGGCTTTTGGCGCT
 TGGCAGATTGCTCTTCATCAGCAGCTTTCAACGTTCTGATTCACAGCTTGGGCTACGAT
 ATGCGCGTTTCAGGTGTTCGCGAAGGCTCGGTAAACGCCAACCTGATTACCGGTGATGCA
 GGCAGCTTGAACATTTCGCGACGGCAGGCGGAATATGTTTATCCGCAATGAGTGGCGTAA
 AAACCAATTAAGACCAATTTAGATGATGTGGGGAGATGCCCGACCGACACAGATATGC
 AAATATGAAGAACACAGTACGGGATCAGGATCGGATGCGGATTCATCTCGGCGAATG
 TTTCAAGCGGCTGCAACAACTTTGGGTCTATGAGTGGATGAGTATTCGCTTCCGCTGA
 CAACTTCGCGGACCAATAGCGGGCTACCCATCGACCGGAAATCGCGCATTTTCG
 TGGCGCGCAAGAAACAGCTCTGACCTGCCGGAAATATTGCTGATTGCTCGCGCTGCTGGA
 TTCAGACCGCGCGGACGCGCGCTAGAAAGCGCGGATGCTCAGCGAGGCGACAGAGC
 GTTTTACGACAGCAGTCCGATTTCTTGGCTATCGAATTTGGCAGCTTCCAGC
 CGCAACCGCGATAAAGGCTTGTCCACACGACGCTGGTGCAGTGGTGC CGGCAATATTTCC
 TGTGCGACTCGGATGCTGCGAGTGGCGGAGCTGCACACACGCTTCCGCAACCGCGA
 TGGAAATGGTTTACGCCAGAGGAGCGCGCTTTCAGCAAGCTCCCGAGTACGAGAGC
 TCACTGCTCGTATGAGTACGAGCTATCTATGCTTAACTCAACAAACAAACAC
 TGGATTAAAGAACCAACCGCGGCTCAATTCGCGCGCGCAAGAGCGGCTACGAACAAA
 TCCACCGCGCGCTGCTCACTGGCTTATCGCCACAGCTCGGATGAAATGCCCGACGGTA
 ACGCATACACCGGCGCGCGCGGCGCTTCCACTTTTCCCGGCTCGCGCTGTTTCA
 AAGCGAAACCAATGGGTGATGGCGGCAATTTGGTTGAACCAACCGCGCTTATCGCGC
 GCGAGCTCGCGCTTATCCAGCGCAATGGATTAGACGAGGAGCGCGCATCTGTCGCGT
 ATCATTTATTCGAGCGCATTTGCGCAAAACCGGCGAGTCTGCTGCGCAGACGCG
 TGAAGTTTACGAGCTGATGCTATTCGCGCGCGCGCTGTTACGCAAAAGTGGCTC
 CGGAGAGAGCGCGCAAACTTTATCCGCGAGCGCTTGTGTCGCGAGGATCGGATTGA
 AAGCGGATTTTGTTCACACAAAGAGCTGATTAAAGAAATACGGAATCGCAACACA
 AATCGCGCAAGCAGAGCTGCTGCTGATGACGAGCGCTTGGCTTTTATACGAAAC
 GACTGCCGCAATGGCTTGGAAACGCGCGCAAGGACGCTTGGGGAAGTAGAGATTCCG
 TACGGATTATGATCTGACAAAGCGGAGGTCGCTGAAGAAATACCGCAACGAGTTTC
 GTA AAAACAGCGTAAATGGGTCTCGCAAAATGAATACACGCAACAGCTAGTGGTGGG
 TTGAAAACCGCAATCAGCGCAATGCAAAAATCTGGTGGTTGCAATTCACATAG
 CTGCCCAACAAACCACTCTCCCGCTGGGGAGGTTGGGAGAGGGCAACACAGTTG
 CGCGCAAAACCACTTTCCGCAACCGCAGCAAAACCTCTCCTCAACCTCTCCCGAGG
 AGAGGGAAACAGAGTGGCGCAGCTTCAACGATTTCAGACGAGCTGCGTCTGCAAACTCG
 AGCAAAACCGCCCTCCCGCTGGGGAGGCTGGGAGAGGGCAACAGTTGCCACAC
 AAACCAACTTTTCGCAACCTCAACAAACCTCTCCCGCAGGAGGGAACAGAGTGGCT
 CAGCTCTACGTTTCAGACGACTGCTGCTCGCAATTCGACAGCAACCTCTCCCTCC
 CGCTGGGAGAGGCTGGGAGAGCAACAGTCTTACAAACCACTTTTCGCAAA
 CTTCAACACTTTTCAGCAGACTCAACACCGAAACAGCTGCGCAACCAAAACCACTG
 TGAACCTCTACCCCTCGCGCGATCTCGCACTCTTCAAGCTTGGCTCAAAACCGCGAGC
 GCGCAATTCGCGCGCTGCTGTTCTCAGCGCGAGAGTGTATGATGCAACACGCGCGCAG
 ACATTCACGAGAAACAGTTCCCAATTTTCGCAAAACGAGACGCGCAATTCACACTT
 CCTACCGCTTCGAGCGCACTCTCGCTAGACGGCTGACCATGACGTCGCGCTGACCG
 TCTCTACCGGCTTCAGCGCGCTGCTGCTGATGGCTGCTGCGGCTGATGACGCGAAA
 AAATCAAGTTCGAATTAAGGACTGCTCAAGCAATCTGCGGATCTGCGCGCGG
 CGCAATTCATCAATGCTGACGAGCGCAACCGCAACCGCAACCGCGCGCTGCGGCC
 AACTGCCACAGCGCATCGCAAAACCGCAGCGACATTCGCAATTCGAGCAAAATCAAC
 AAGACGAATGGGCGGTTTCAGCTGCGCGCAACACTGCTATTTCAACCTTCGCAATTATG
 ACGACGGCGGCAAGAGCTTGC CGCGGCCGCAACTGCAAGATTGACACAACTACTG
 GTCAGCTGCGCGCTTACCTTCGTGACACACCCAGAATTTGAGCGCGACACGCTCA
 CGCATGGGACATCGCACCTGCCGATCTCATCAATTCGACGCGCGCAACACAGC
 TACCGGCTATCTGGCTTCAAGAAAGAAAGACGGCGCGCACTGCGCTGCTGCTGTTG
 ATACGCGAGAGCTGACAGGACGAGCTCAAGGCTGATCGCAATTTGAGAGCTG
 AATTAAAGAGCAGGTAACCATTTGAACAAACGCAATCAAGCTCTCACCGAGCTGCA
 TGTGCTCAACACATCAACCGGACACTCTGCGCGGACGCTCAACCGCGCTGCGG
 ACCCGGCTTTATCGCGAGACGAGCTGCGCGCAACGAAAGCTTCAAGAAACAA
 TCAACGCGCGCAGCGCGCTGCGCGCTCAAGAAAGCCTCAGCGCTACCTGCAAG
 AAAACCGCGCGCTTACGCGCACTCAACGCAAACTCGGCAACACCCATTGACCCAC
 TTTAAGACTACGGCTGCAAACTGCTGCGCGCGGCTTGCACCGCAACCGCGTGGG
 CAATATGGCGCGGCTCCCATCTACTCAAAAGCACTGACCTGCGCTGCAAAATCA

Appendix A

-474-

[illegible]

Appendix A

-475-

CGACTCTTTAGTGGGTTAAACCGCAAGGAAAGTCTCATCTTCAGGCGAGTTTCGCGCTT
 AGATGCTTTACGCGCTATCTCTCTCCGAACTTAGCTACCCGGCTAGCAATGGCGTTAC
 AACGGGTACACGAGAGGTTGCTGCACTCCGGTCTCTGCTACTAGGAGGAGCCCCGTCA
 AACTTCCAAACGCCCACTGCAGATAGGGACCAAACTGCTCAGCAGGTTTAAACCCAGCT
 CACGTACCACTTTAAATGGCGAACGACATACCTTTGGGACCGACTACAGCCACGAGATG
 TGATGAGCGGCACTCGAGGTGCCAACTCCGCGCTGATATGAACCTTTGGGCGGAATCA
 GCCTGTTATCCCGGAGTACCTTTTATCCGTTGAGCGATGGCCCTTCCATACAGAACCAC
 CGGATCACAATCTGCTGCTTTGCGACCTGGCTGAGCTTGGCTGGCTGCGAGCTTAAGCTACC
 TTTTGGCAATGCGATGCGCGGAGTTCGCGGAGGAGCTAGTAACTCTGAACTGCTG
 CTTTACGCTTTGGGAGGAGACCGCCGACCTAAACTGCTACCATGACAGGTCGCCAGC
 CGGATGACGGGTCTGGGTTAGAACCTCAAGACACCGAGGTGGTATTTCAAGGACGGGTC
 CACAGAGACTTGGGCTCTGCTGCTTAMGCTCCCACTTACTCTACAGAGTACTCTCAA
 GTCCAAATGCAAAAGCTACAGTAAAGGTTACGCGGCTCTTCGCTAGCAGCGGGTAGATT
 GCATCTTCAACAACTCTCAACTTCGCTGAGTCTCAGGAGGAGACAGTGTGGCATCGTT
 AGCCCAATCGTGGCGGTGGAGCTTACCGGCAAGGAATTTGCGTACTTATGGACGGTTA
 TAGTTACGGCGCGGCTTACTTGGGCTTCGATCGCAAGCTCTGCATCTTCAATTAACT
 TCCAGCACCGGGCAGGCTCTCAACCTTACGTCCACTTTCTGTTAGCAGAGTGTGCTGTG
 TTTTAAATACAGTGCAGCCCACTATTCTCTGGGACCTCCGGGGCTTACGGAGCAAG
 TCCCTTAACCTTAGAGGGCATACCTTCTCCGAGGTTAGCGTATCAATTTGCGAGTTCTCT
 TCTCGTGAATCTCTCAAGCGCTTAGAATTTCTACTCTGCCCACTGTGTGGTTTGGG
 GTACGGTTGGATTCAACTGAAGCTTAGTGCTTTTCTGGGAAGCGTGATTCGGTTGCT
 TCGTGTGCTGAGCACTCGTCTGCTACTTCTCGGTGTATGAAGAAGCCGGATTGGCTAAG
 TCTTCCACCTTACCGGCTTAAACAGCACTTAAACAGCTTGGCAACTAGCTTCTCGCT
 CCGCACTCGCATGCACTACACGGAATTAAGCTGTTTCCATCGGACTACGGAT
 TCTCGCTCGCTTAGGGCGGCACTCAACCTACGCGGATGAAGCTTGGCAGGAACCTT
 GGGCTTTCCGGGAGCGGGCTTTTACCGGCTTATCGCTACTCATGTCAACATTCGCACT
 TCTGATACCTTCCAGCACACTTTAAATGCACTTTCATCAGCTACAGAGCGTCCCTTAC
 CATCGCGGTAAACGGCATCCGCACTTCGGTTATGATTTAGCCCGGTTACATCTTCC
 GCGCAGGAGCACTCGACAGCTGAGCTATTACGCTTTTCTTAATGATGGCTGCTCTTAAG
 CACMACTCTGGCTGTCTGGGCTTCCCACTTCGTTAGCACTTAATCTATCATTTGGGA
 CTTTACTCTGGGCGGCTTCTGCTGCTGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TCTCCGAGGAGCACTTATGATGATATCTTAGTTTGGCATGGTTGGTAAGTTGCAATAA
 CCCCCTAGCCATAACGATGCTTTTACCCCACTAGTGCTTCTGCGAGGCACTACTAAAT
 AGTTTTCGGGAGAACCGAGCTATCTCCGAGTTTGTGTTAGCCTTTCACCCCTATCCACAGC
 TCACTCCCGCATTTTGCAACATGGTGGGTTGCTGCTCCAGTACTGTACCGCACTT
 CAACCTCGGCATGATAGATCACTCGGTTTCGGGTCTACACCCAGCACTCATCGCCCTA
 TTAGACTCGGTTTCCCAAGCTCCCTATTTCGGTTAGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TTGAGCCATTAATGAGTATGCAAGATGCAAGTGGGTTTCCATTCGAGCTGCTGCGGG
 ATCACTGCTTTATGGCAGCTTCCCGCGCTTTTTCGAGGCTTACAGCTCTCTGCTGCG
 TATCATCGCAAGCATCCACCTGATGCACTTATCACTTGACTCATCATTTCAAGAAC
 TTTCTTGACTTTGCTTAACATCTCGTTGACTAGAACATCAGACTTGAATTTCTCACTTTG
 ATAAAGCTTATGCTTTTGTGTGCTTAACTCCGCTTTTGTGTTACAGGATTAAGTCGA
 TACAATCATCACCCAAATCTGTGTTGTTTCTTTCTTCTTGGAGAGATTTTATCT
 TTGCAAAAGTAATAAAATCAAAACAAACGCTTTGTCTTTGTTGTTGTTTTCGGCTTTC
 AATTTGTTAAGATCGATGCTTTGATATGCTACTACTGTGCAAAATAAACGAGCTG
 ATTAATATCAAGATTTGTTTCTGCTGCAAGCTGAGCTGCGCTTCCCACTCTGCTTCTT
 CCATTCTTCGCTTTGATTTGTACAGATTGCTGGAGGCAACCGGATGCAACGATAC
 CCCCCTGTGCAAGCAGGTGCTTCAACCACTGAGCTATGCCCGGCTTCTTGGTGGGTCT
 GGGAGGACTTGAACCTCCGACCCCAAGCTTATCAAGCTGTGCTCTAACCACTGAGCTA
 CAAACCGGATTTCTTCTTAAAGCAATTTGCCCTCACTCAAGCTTCTTCGCGATCTTT
 TTGAGTTTACGGAAGTGTGAATGCTTAAAGGCTCTTCTTCTCTAGAAGGAGGTGAT
 CCAGCGCGAGGTTCCCTTACCGCTCTTCTTACGACTTCAACCGGCTCATGAAGCATAC
 CCGGTAAAGGAGGTTTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TGTGACGCGGTTGTGATCAAGACCCGGAAGCTTACACCGAGTATGCTGCTGCGA
 TTACTAGCGATTTCGCACTTCAAGCTGAGTTGCAAGTGCAATCCGAGTACGATCGG
 TTTTGTGAGATTGGCTCCGCTCGGGCTTGGCTACCTCTGTACCGGACTTGTATGAC
 GTGTGAAGCCCTTGTCTAAAGGGCATGAGGACTTGAAGCTATCCGCACTTCTCTCGG
 TTGTCACCGCACTCTCATTAGAGTGCCCACTGAATGATGGCACTAATGACAAAGGCTT
 GCGCTGTTGCGGAGCTTAACCCCACTTCAACGACGAGCTGACGACGAGCATGCAAG
 ACTGTTTACCGGCTTCAAGCACTCTCTCGCTTCAAGGAGTCTGCTGATGCTGATGAC
 ACAGGATAGGTTTTCGGGTTGGATTAATCACTCACTCACTCACTCACTCACTCACTCACT
 TCCCGCTCAATTCCTTGAGTTTAAATCTTGGACCGCTACTCCCGAGCGGTCAATTTCA
 CGGCTTAGCTACGCTACCAAGCAATCAGGTTGCCACAGCTAAATGGACCTGTTAGGG
 CGTGGACTACCAAGGATCTAAATCTGTTTCTCACTCAGCTTTCGGGATGAAGCTCAG
 TGTGTCCCAAGAGGCTGCTTTCGCACTGGTATTCCTCCACATCTCTACGATTTCACT
 GCTACAGCTGGAAATCTCACTCTCCTCTGACACACTGAGTCAACCGTTCAGAAAGGAGT
 TCCGGGTTGAGCGCGGAGTTTCACTGCTGTTAAGTAACGCTTTCGCGGCTTTAC
 GCCCAGTAATTCGATTAAGCTTGGACCTCAAGTATTTCCGCGGCTGCTGGCACTGATG

Appendix A

-476-

TAGCCGGTGGTTATCTTCAGGTACCGTCATACGCCGCTGATATTAGCAACAGCCTTTTC
 TTCCCTGACAAAGTGGCTTTTACACGCCGAAGGCCTTCTCAGACACGGCGGCTGCGA
 TCAGGCTTGGCGCCATTGTCCAAATTTCCCAATCTGCCCTCCGTAGGAGTCTGGCCCG
 TGCTCAGTCCGAGTGTGGCGGATCATCTCTCAGACGCCGCTACTGATCGTCCGCTTGGT
 AGGCCTTTACCCCAACCACTAGCTAATCAGATATCGCCGCTCGAATAGCGCAAGGCCCG
 AAGGTCCCTGCTTTCTCTCTCAGACGATATGGGTTATAGCTGATCTTTCGATCAGTTA
 TCCCCCACTACTCGGTAGCTTCGGATATGTTACTACCCGCTTCGCCACTGCCACCCGGAG
 AAGCAGGCTTCTCTGTGCTGCCGCTCGCACTTGCAATGTGAAGCATGCGCCAGCGCTTCA
 TCTGAGCGAAGCGCAATGTTATGTTCAATCTCACTTTAACTCTTGGTCTGCT
 CAAGAAGCCCAAGCAGGACGATGTTCAAACAACTATCTCTCTCTTCTCAACACAGTGTGA
 GACTCAAGGCACCTCACACTTATCGGTAACTGTTTGTGAAGAGCGCTTGGCAATTATAA
 AGTATTCCCTTCGCCGCTGTCAAGATATCTCTCGATATCCCAACACTCTGTGCTATACTTT
 TCAGTTCGTCGCCGCACTCTCGACGAGCGAAGAACCACTATACGCCACAGGGAAGAAA
 CGGTCAA TGCTTTTCTGAAGAAATTTTAAAAATATTATCTATTGTTTATAAAATTT
 AATTATATCAGTCAATTTTATTTTCCATACAGAACTCTTCAGTGGCCGATGGATATTT
 TCAGCTTCGCATCTGTTTTTAAAGGCTGCAACATTTTCGATTGTCGGTTCGTAGTACA
 AATTGATTTCTGACGACGACGAACATGTTTGGATCTGCTTCGCCGCTTCAAGCTG
 TCGCCCAAGATCGGACTGCCCAACCTTTTCATCGCCACTTCAATTTGGTGGTTTTCGCC
 GTATCGCGTTCTAGGATGAACAGCCGACGTTTTTGGCGGATATCATGTGCTGGAAATCGG
 GTAACGGCGATATTTCTGTATTTCGCCGCTCAACTTCCACATTCCACACTGGATTTTTC
 ATTCGCCCTTTAATCCAAACCTGCTTTTGGAGCGCTTGGCGTGGACAGTGCCAAATAG
 GTTTTTTCTGATCTTTTTCGCCGCAACCTGCCGTAAGGGCGGACGGCTTCTTTTGTG
 AGGCGCAACAGTAAAGTCCGCTGGCTGCTGTTTTCATTCAGTTCGGTGCAGCAGCACAGCG
 TCTACGCCCAACTGTGATGACAGGTTTCGGCGCACTCCGCTCGCCGCTGCTTGGTGG
 ACGGATATCGCCGCCGCTTGTGATGGCGCAGAGCTCTGATGGCGGACAAAATTTCC
 AACATATCCATATATGCTTCGCAAAAAAGAGGGTTCAATTTTCGTGTATGTTTCGGC
 AAGGATTTTTCCTACACAGCTTCGGCGCAGTACGGGTGGATCGTTTCGCTCAGCGCTTC
 CGGCCGACCGACTCTTTGACCATATGTGGACGACACTTGGCGAATTCGCCGCGCGCAT
 GAGGATACCGTGGATATTTCGGGGCGAGGTCGCTGTGATATGGCGCATGAAACGCTC
 GTATTGGAATCCGAAGCAGACGAGTATGCCCGCAGCAGTGAATCCGCTCATCTCCACAG
 GCGGTAAATGGCAGATGCTGATCTTCAATACATGCTGCTGATGGAGACATTT
 AGTAAATCCGCAACAATATCTGCTTTCAGCGCGGATAGGTCGCTGCTTGTCCGG
 GTTAAATGCCGATGGCGCAGTGAAGTTTCGCAACATAGATTCGCCGCTGCCGATATCCA
 CAGATGCCCAATGTGGCGGATCGAACTCGCGGCATAAACGGCGCGCGCGGTGTATT
 CGGTAACTTTGATTCCTCCGCGCTTCATAGTCGCGTGTGTGTTGTTGCTGTGCATCG
 TATTGTATGCCCAAGTAAATCGCTTCGATGACATTTTCAGACGGCATTCGCGACGCGC
 GTTAAATCCGCGATCAATCTCCGCTTTAAAGCAACAGAGTGTTCAGCAGGCTGCTGAA
 GATGTTGTAAGCGGATTAACAGCTGTGTTAGCGCGCTGATGGCTCTCTTCGCCGCG
 GTCGATGACGGTGTGAAATTTGAACCGGATTCGGCGCAATGGCGCGCTTCGGGAGG
 GGAATGGTCGAGGCGAGTTCGGGAATACCCAAAAACAGATTTGGCAACACAGCGGACAT
 CAGAATGACCGCACTACGCTCAGGAAGCGTTCGAGCGCGTTCATATGAGCGCGGTTGG
 CGCGGCCAAGCGGACATCGTTAAAAAGACGGCGCGGTATCGCGCGCGCAATGCCGAC
 GATTTTCGCAACCTCGGCAATATGAGCGCGTATTGACGACGGGCGCATCAATACGCC
 CATACCGAATGTGAATACCATACAGAGGTTAAGCGCGTATTTGCTGTAAAGGTTTTCTC
 GATGAAGTGGATCATACCGTGAAGAAAACGCCACAGCAGCGCAACCTATTCAGCGCGA
 ACCGAAGCGCGGTGAATTTGAACCGGATTCGGCGCAATGGCGCGCTTCGGGAGG
 CGGAATAAATGAATAACGAGCAGCGGTAGGTTTCTGCGAGGCGGTGTTTTGAAGAC
 CGTATGGCGGTTGATGCTGAACGCTGCTGTGCATATCATCTGCTCCTGAAGCGCGGT
 TGGGAATATGGGGGATTTAACTATGCCCAATGCAAAATTTGTCGGTTCGGTGAAGA
 TAAAGTTTCGCGCGGATTTTAAAGCGCTCTGAAGCAGTTTCGGCAGCGCTGTGTTCAA
 AACGGAAACCGGTTATTTCGGGAACGTATCCCTGAACGGCATCCGCGCGTCCGGAAGAA
 ATACTGCTCCATCTGCTGAGCAGGATTCGCGCGCGCGCGGATTCGGCAGGCTTTAAAGC
 GTTTCCTTAATTCAGATGCTGTTGCGCGCATGACCGCGCGCGCTTTCGAGAT
 GTTTTCCAAATCGGCTTCCCAATTCGTTGGAGAGCGCGGAATTTCTATGCTTCGCG
 TTCTTTGTTAGCTTGAACGAGAATACCATGCTGCGCATACGCGAATTCCTTGTGCTGTG
 CAGAATAACCGGGGTATTTAACTATGGGATACGGAACAAAAGCTTCTTATTCCCG
 ATGATAGGAGTGGTGTGTCAGGATGGAAACGGCGCGGTAGAGCTGCTCGGTGAGAAAGAC
 CGCACCATCTGGCGTGGCGAGGTCAGGCTGGACAGCGCATCATGCTGCTGCTGCTG
 TTTGAGCGGTCGCTGATTCGCTCGCGCGCGCGCGCATGAGAGCAGAGCTGTTTCGCCGTT
 TTGCGCGCGCTGCTGATCTGCGCGCATGACGAGGAGTGGCTGCTTTCGCCGCTG
 CTCAGAGCAGCAGGACAGCTGCTGCGGAATGCTTCAGGATGCTTCAAGATGCTGTTTCGCG
 CGCATACCTTGGCGGCAATTCACGCCCGCGCGCGGTTTTTCGGGTGATGTTCTTTGAG
 TGGTATGGCGCTGCTGCGCTCGAAGCGTTTTGGCGATTTCGGCAGCGGCTCATCAACCCA
 GCGCGGCAATTTGTCGCCGATGCCAAACGGTGATGTTCAATGCTTTCTCCCTTACAGG
 AAAATGCGCTCTGAAGTTCAGACGGCATCGGAATCAGTCTGCGCGGTGCCACGGCTTC
 TGCAATCCGCGCTGGAACCTCGGTTTTCGCCGCGCCAGAGGCTGTGATGCTGTGATAGAG
 TCGCGCAGGCAAGGAGACGATGCTGGACGACAGGATCTCTGCATCAACCGGCTCGT
 TCGCGCTGCTGCTGCTGCTGATGCTGAAGTTTTCAAAACCGGTTCTTGAATGCGGCA
 ACGTGTGTCGCGAGTCTTGACTTGGCGGATCATGCGCGCTGGCGAATATCATCTG
 GCAACAGCGGAATTTTGTCTTGGGTTTCGAAGACGGAATGCTTTGGCTTTGATGCTC
 CGAGGGCGCTGACGGCGACCCGACCATTTTTTCAGAGTCTTGCAGCTTCTGTGCTGCTC
 ATTTATTTCTCAACGGGATGTTTTACAGCGGCATTATAGCGTTTTCTACTGATTGACT
 TTTATTTTCATACAAACCGTGTTCGCGGATGTAGCGTGGCGCGCGCGGAGTGGCGCTC
 TGAACCGCTTGGCGCGCAGGTTTCGCGGATTTCTGTTGACACATATGCAATCGG
 GCGCGCAGAGTTCGGCGCTGCTGCTGCTGGAAGGACCTGGCGCAGCAGCGGTGAGTTC

-477-

[illegible]

Appendix A

-478-

CACACCCAAAGCAACTCGGACAAAGATGGCGGGTATTTCGCTGACCGATGAAGACGG
TATCCCTGGTGGGCAATCTGGCGACTGATGAGCAACAGGCGCAAAACGGTGCAGAC
CACACCATGTGAATCTGTTCCGCGCTCAACCGGGCTACGGCGACATTCGCGCGAGCGC
GAAGGCAANGCTGCCCTTCATCCACTCAGTCGCGCGCAAGACATCAACTCGAGGCGATG
ATGTCGCGCAAGGACATTACATGAAGCAGGGAATGCTCGATTGCGAACTGGAAATCCTC
GAGGAACCTGGCGAAGGCGAATACGGGGTCAAAATCGCCACCCCGGCACGCCCAAGCG
CTCGAAGCGGATTTCTGAACCTGGGTGGCTCGGAAACCTGCTTTGAAGCAATATGCGG
TCTGAAGCCGACAGCATGGTTCAGACGGCAATAACTATCGGACAGAAATGGATATG
TATGATTATTAATGATTAAACCAACCAAGTACAGGGTTGCTCGCTTACGTCAAGA
GAAGATTCTCTGAAGTCTCGCAAGCACAAGATCGCTGGCTCGCTACTGTACTGCTGCT
TGGCGCTTCGTCGGCTTGCTCGTATTTTTGTAACTCACTATAAATGAGAAATACCGCG
CTATCGTCTCATTTTCGCTTTTAAACGCCATAAAAAAGCGCTCGTCAAACTCTTCAGACG
GCATTTCGTCAAAACCGCGGACGACTCAACCCAAATCAACACGAGGTTGCGGAACGCGG
TTCGGCTCTTTGATAAAGCTCATCTCGCGCGCTCGGGAATAAATACTCAACAGCGCG
GACACCCAAAAGAGGATGACGCGGACGTTGGGCGGGTGGGGAATAACGCTTTTTCGCG
GCATCTCAAGGGGCGACGGCTCAATACCGGCGATAAAGCGCTTTTCAACGCTCATTC
AACITATTGTGCGGCTCTTCGCAACTGTTGACCGCAATGCGCAAGCATCATCATAA
TTGCCCGCGCAGCGGTAAATGAATACTGATGAAGCCGCACTCTGACCGCGCTCAACGAC
ACATTGCTTTAAACAGATCGGCATGGATGATGCCGAAGGCGAGATTGCGGAGATTG
TCCTTCAACGCATCGATTTCGGAACACAGCAGTGGCGCATCGCTGCGACAGGACGGG
AGCAGCGCGGCGCAGCGCTCGCTCCACACGCAATTGTAAAGCGGGTTTTCATTCCAAA
GGGAATCGCGCGCGCAAGGTGCATTTTCGCAACATCGCACGGGTATGAACAACTGTC
TACGGCTCGGCGAGCGGATCGGAACCTTCAGGCGAGCAACCGGACGCGAGGCTTA
CCGCGCAAAAGCGGCGGCGGCGGCTGTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCG
CCCTTCATCTCAATGCGCGGTTAACTCCAGAAAACCGCGAGCTCTTCCTGTTTCAAC
ACTTCAACACGGTCAGCACATAACTGTCGGAAGTCTGCTGCAAAAATAATGTGTGTG
GTAATCCCTCGCGGATGCGCTCGAGGGAACAAATCCCCCAAACTGTAACCGCTCAGG
AAGCGCGCATTTTCATCTGGAAACATGTTATAGACAGCATATCACTCACTTGCTC
AAAAACGGGCAACCGCGCTCAGACGCGGCGGCGAGGCAACATATAATTCATCTG
GTCAATCCGACAGGCGATAAGTTTGGCAACACATGTGAAGTCACTACCTTCGTATTC
GCCACATCAAGAGCTCAAGCGCGGCTGTCGCGCGGCGGCGGCGGCGGCGGCGGCG
TTCAGTCTGCGCGGCTTTGGGCAACAAATTCACACATATTCGCGCGCGCAATAGA
TGCAGTACGATTTCGGGTTTTTATGATGGTGGAAAACACCATCGCTCGCGGTTG
ACCGATTGGCAAGCACGACGATGCGGCGGGAATCGGGGACGTTTCCATCATTTTC
ATGCACTGTACCACTGCAACGAGTGGGTTCCGCTCGGCAAGCTTTCACGCGGATA
CATCTGATTTGATATCGGCGACATTTGTTCAAGCGCGCTGCAAGGCGGGCGTTTCCAC
GACTGCTCGGCATGTGAGTGGCTTTACAAACCGCGCGCGCGCGCGCATATTTTC
GCCAGATCG
CGGTGATATTAATCG
TGTGCCACATTTGTCGCAATCCGGCTGAATTGGCGATTTCGCCCTCATCGACATTA
TATTTTTGTGGGCAATTTCCCTCCCATCTGACGACCGCCCATCCAAACCCCAAGT
TATACTATGGAACAATAAGCGCTCTGAAGGCTTTTCGGCGCGCGCGCGCGGAAATACCT
ACAAATCTCTACATTTACGGATAATGCGGCGTCTGCTTTCTGCGAGAAAGCAAAAT
ATGCCCAACAAACCCCTTCACTGTTGCGGCGGCGGATGATTGCGCGCGCGCTCATC
GGCCGAGCATCTGCGCAACCGGCGGCACTCGGCGGCGGCGGCGGCGGCGGCGGCGG
CGGCTGCTGCTGACGCTGTTTCTATGCTTTTCAGCGGCGCTGATGATTGAAGTGC
AACACCATTTATCCGACGCGCGCAAGTTGACACGATGGTCAAGACCTGCTCGGCGG
GGCTGGAACATCATCAACGGCATCGCGCTGCGCTGTTGTTTATACCTGTTACTTACGT
TATATCTTGTGCGCGGCGGACTGACCGGCAAGGCTTAGGCGCGCGCGCGCGGCGG
GTTTCACTCAACCTCGGCAACATGCTCTTCTCGGCATCTCGGCTTTTGGGTATGGGCA
TCCCGACGTTTGTGCGACGCTTCAACGGGCTCTTACGGGCGCATGTTATGACTTT
ATTGCGGCGCGCGGCGGCTGATTGCGGATGCAAGCGTTCGCTCTCTGATGACCCAA
CGCGCGCGCGGCGGCGGCTGATTGATGCTGATGCTGCGCGCGCGCGCGCGCGCGG
TCCCTGCGCTTCACGCAACGCTCTCCAGCTGCTCAATATCTTAAAGCGCGCGCGCG
AAATGGCTAAATCATCTGGACGGGCACTGATTGCGCTGTAATTTACGCTCTGG
CAACCGGCATCAAGGCACTGCGCGGCAACGAGTTGCGCCCGTATCGCGCGCGGAC
GGCGAGTCTCGCTCTCATGAAACCTGTCAAATTCGCCCAACCGGCAATATGGAC
AAATATGTGCGCTGTTTCCATATGGGATCGGCACTGTTTATGGCGTAAACGCTC
GGACTCTTGACATCATCGGCGACATCTCAATGAAGCAGCAGCATCTCGGCGCGAC
AAGACGCGCGGCGGCGGCTGATGCTGCGCGGCTGATGCTGCGCGCTGCTGCGCGCG
TCTGATTCGCGCTCATCGCTACGCTGCGCTGCGCGCAACGCTGCGACAGCATCACTCC
CGCATCTCTCTACGCTTCGCGCAAAATATCGGCGGCGGCAAACTATAAAGTTTAC
GGCGGCTTGTGGCTGATGTTTGGGTCTTCCCTTTTCGCGCATGTCACATCTGCGCGCAG
GTATTGAGCCAAATGAAGTCTGCGCGCTTTAAAGGATAAGGCAAAATGCGCTGTA
AGCGCGCGCGGCGCTTCAGACGCGATTGCGCGAACAACGGCAACCGTATTCGCGCAC
AGCGCATATCGCTGCCCTTCAGCACAATAACCGCGCGCAACCGGAGCAACCAATA
AAGAACATAGTGAAGGCTCAAAATGAGCATTCGCAACACACACATCAACACGCGCGG
CGAGGAACCTTCAAGCGGCGGATTTGTAAGGCTGAGACACAAATCAACACGCGCGG
CGTTATTCGCGCAAAATTCATACACGATTCCTGAATCGGCTTAATCGAACCCCAT
TTGTGATCAACACGGACGCTGAAAACATACGCTCATTCCTCTTTCAAGCGCGCTG
CTCAACCGAGAAAACAGTGGCGCAACTGATTGCTGCGCACCGGCTTACGCGG
ACCTCTCATCTGCGCGGCGCACACTTGGGCTACTCGACCATATGGCGCAAAAACCGA
ACCTGCTCGACCGCTCGGCTACGCGCAACCGGCGCACTACGCGCGCGCAACTGA
TTATGGCCCAATCCCATATGATGCGCGCAACTGGTGGACTGATCGGCGTTCGCGCTG
AAGAGCATCAAGTGGCGCGCGCGCGGAGATAGGGAAGCTTCTTTCACACACCGG

Appendix A

-479-

GAAACTGCCGACCTGCGCGCCAAATACGGCTTTCGGGACCATGAAACCGCTTTCTGTTC
 CATTGACGGCCCAACGCGAAGGCTTGGAACTGCTGGCGAGCTTTTCGCAATACCC
 AGCTTGCCTTCAAGCTTGGCGGTTTGTGCTGGTCCCGGCTTCCTGCAATCATGAAACGCTG
 GTGCGACTGGGGTTCTGCACGATATGCGGAACTCTACCGCGCGCGCGACTTTACCAATT
 ATGGCTTCTCCTGTACGAACCTTTGGGCTGGTGGCGCTGGAATCCGCTCTATGCGGCACA
 CGCGTCTCCTCTCCGAAACATGGCATGTACAGAGGTGATGAACGAAGAAGCGCGCTTC
 TTTTCTCAGCGCAAAACCGGAAACCTGGCGCAAGCGCTTGCCTAAGCGCTCAGCGCTT
 AAAAAACAGGGCGGACACCGGCTGTCCGACCGGATGCGGGCACTGAACCTACACCCGGCT
 TATGCAACACACATCGGGCTGATCTTTGAACTGCTGGCTTGACCGCTGACCGGCTCCCAAGG
 GCATTGCCCGGTGCGGACGCGCGACGATTTTTCAGCGGCAAAATACGTCCGGCAGAAAT
 TCGGCTGTGCAAGCAGCGCAGGAAACATTCGGCAACCGCCCCGAACCGCGCTACCGG
 CGCAATTGCAAGCGGTTGCCGGAACAGGCGGCTTATCGCGGCGCAGCGCGACTTTCCACCG
 GATATTTTCAGTATAATGCCACCCCGGACCTGCCCAATCCAAAGGAAACGCGATGAAACT
 CATCATTTCCGACCGGACGGCGCTCATCAATCAGGACCGGACGACTTCGTCAATCCGT
 TGACGAGTGGATACGTGTGCAAGGACGATGGATGGCTGGCATTTCTGACGCGAGCGAGG
 CTACACCGTTCGGCTTGCACAAACATTCGGCATTCGGGCGGAAATATTTTACGTTTCA
 AACTTTACGACATGCGCGCAAAATGCGCCGCTTGTGCTGTCAGCAGCGCGAAT
 CAACGGCACTCGGTTCTGCCCGCACCGATGCCGCAACTGCAACTGCCCGAAGCCCAA
 ACCGGGTGATTTGAAGACATCATCGGACGCTTCAACGCCCAAGCTCGGAAAGTGGCT
 GGTGGCGGACGACTGCGCGATTTCGACGGCAATCATGTCGCTGGCGCGAAACCGCGGCT
 GGTTCGACGGGAAAGGCAAAJAAACGCTTCCCAACCGGACGAAATTCGCCGAACA
 CACACAGGTTTCGATACCTTGCTGATTTCCTCAACTACATCATGAGGAAACACCGCG
 ACCGAGGCGCACTGAACATACCGATTTCGACAGAGGCAAAACGATGCTCATCTCCGCA
 ACTGATTTACTGGTGATGACTGTTTTCGACATGATTTTCGCTTTTCCTTTATGCTGTC
 TGCGTTCGCTTTCGACGACGGCGACAGATGCGCAATGCGGCTTGGTGGGATTTCTCA
 ACTGCTGCTCAACACATGCTGGCTCGGCTCAAAATACCGCATCATCGCGCGGAAACATCC
 CCGACCGCCCGCGCTCATGTGCGCACACACAAAGCGGCTGGGAACGCTGCGCGTTC
 AGGACATTTTTCGCGCGAGGTTTACGTTGCCAAACCGGAGTTGTTCAAAATCCCTTTT
 TCGGCTGGGGCTTGAACCTGGTCAAAACATAGCATAGCCGCAACACCGCGCGAAG
 CCAACGAGCAGCTATAAAACAGGGGTTGGTGCAGAAACGAAAGGCTATTTGATAGCA
 TTTTCCCGGAGGCGCGCGCTTGGCGCGGAAACCGGCAAAATCAAACTCGCGCGGCG
 CGCGATGCGGACATGCAACACCGGATTCGCTGCGCGCGGCTGCGACGCGCGCGGAT
 TTTGGCGGAAACCTCTTTCCGAAATATCCGGGGGAAATCACCGCTCTCATCTGTCGGA
 CCATCCCGGACGCAAGCGGACGGAAGCGGAAATGATGCAAAATGCGGAACCTCATG
 AAACGCAACAAACCGCTTATTTCGGCGCAGGCGCGTTTGGCGGCAAAATGCGCTTGAAJ
 CCGCATGACCGGCTTTGTCACACCTTTTCAGACGGCATGGAACTGACGCTGGAATCAA
 GCGCGCTGCCAGAAACCTGATTATTCGCGCGCGCGGACACATCCGTCGCGATCAG
 CGTCCCGGCTGCTCTCGCTTCGCGCTTAACACCGCTGGCTGTATGAAACGAAGCGCT
 CTCGGGCAACGACATGCAACACCGGATTCGCGGAAACCGGACCGGCGCGGAT
 ATCCATCTCTTCCACGGCAGCAGCTTGCCTCCACGCGCATCAAGACCGCAAACTCT
 GCTGATGCGCTTGAAATCCGCTGTTCGCGAGGCGACCGGAAACAGCTTGGCGTGT
 GCGGACTTTTGTGAACGGCAGGCGCACAGTTACCTGATTCCCGGCTCGAACGCCAGCG
 CCGCACACACAACTGTTCCCGGCTCTCTCGCTGACCTCTCGCAAAACCTTCTGGGG
 CGTGTGCGCAAAACACAGGATACGCTTCACTGGCGGCTGGTGGCGCACCGGAATA
 CGTTCGCGACTGTGCTGACATACGAACTCTGCACTCTGCCCATCCGACCAAGSCG
 CGCTTTTGGAGCTGACCGCGCTTTCGCGCTTACACCGGCAACGAGGATGCT
 CAAAATCCACGGCGGCACTTTTCGCTTAGGCTGACGCGGATCGACCGACCGCGCG
 TTTGACGCGCATCCGTGCGGGAACGCGACCGCGCGCGGATTCGAACCGCGATGAGC
 CTTTGCGCCGSGTTTCGGGAGGATGGCGGCAACACCGCGCTGCGCGGCTTTCATTTC
 CACCGCTCTTCGAAACCGGAAACCGCGCGGCTCGACGCTGCGGTATGAACGCTTTAAGC
 TGACCGAAGCTTTTACTGATTTCGCGCGGAAATGCGGCTTGAAJGCTTTTCGGACGG
 CATTTTTCGCTTTCGAGGATGGCGGATTCGTGAAAGGCGCGCAGGTTGATGTT
 TAGGATGGTGGAGACTGCGCATTCGCGCGCATTCGCTGCAAACTACCGCGCTCATCTCT
 AGCAAGTGGAGATACGACGCGGCTTTCGCGGAAACGCGGATTCGCTCATCTCCAGAA
 AGTGGGAATCAGCTTTTTCAGTTTCAGTCATTTCCGATAAATTCGCTTAGCATTCGAATG
 TCTAGATTGCGCACTGCGGGGAAATGACGAATTCATCGATACGGAACCTGACCGCGCT
 ATTCCACGAAGATGGGAATCCAGAGCGAAJAACTCCAGAAACCGCTTTATCCGATAAG
 TTTCCGCACTGAGAGACTAGATTCCCGGCTGCGCGGGAATGACGAATTCATCCATACGG
 AAACCTGATCTCCGCTACTTCTTCAAGAACTACATTCGTCATTTCGACAGGTAATTCACAGGA
 TAGGATTCGAGCACTGCATCCCGCCCGCAACACTCCCGCAACACGACGCGCTGCG
 CTGCGGCTTGGAGCTTCTGCTGCAAAATCGCGCATACGATACGATCAGCTGGAATTTTC
 GAATCCAAATCCGATGGATACCGCAAAAACAACTGCGCAATACCTTATCCATG
 ACGGACGCGCTTTTACGCTGCGAGAAACAGGCTGACGCGCTACGACCGCTTCAGCGCG
 CATTTGAAACCGCGCTGCGCCAAATGACAGGCGGAAGCGGTTTCACCCACCGCTTCCGCGCA
 GGAACCGCACTCGGCGTGCATGCGACCGCCCAAGTGCCTCACTTGCACACAACTCGCGCGC
 GTCCCGCAACAGGATGGGTGCGCGGCGTAAATGCCCACTGCCCGAAGGCTATGCGCTTT
 TGCAACCGCAAGAGGTGCGCGCGAAATTCATGACGATTTGACGATACGACGAGGCACT
 ACCCGTACCTGCTGAATCGCGCGCGCTCGCTCCCGCTGCTCAAAACGAGGCAAGCT

Appendix A

-480-

GGACACACCTCAAACCTGGACATCGGCGAGATCGGCGAGCTCGCGGCTATTGGTCGGG
ACAGAGCTCTCTCGCGGATCGGCGAGATCGGCGAGATCGGCGGCTCAAACCG
TCTACCGCGCGACCTTACCCAAAGCTCAGGACTCGTCGCGCTGGATTTCGACGGCAACG
CCTTTTTCACACACATGGTACCAACATCATGGGCGGCGCTCGTTATGTCGGCAGCGGCA
GACTCAGCGCTCAAGAGCTTCGCGCGCATGATTCAAGACCGACGCGCTCAAAGCGCGCG
CGACCTCTTCGCGCGCAGGACTTTACCTGACGCGCGCTGACTATCCGAGGCGATACGGCA
TCATCGCGCCCCAAATCCCCGAATGGCTTAAACAGTCTGTGCGGAGATTTTGAAAT
CGGCAAACTGTCAAGCAATTTTTTCATGTGTGACACTCTCATCAAGTCACTTAACAT
TGTTATATACATATGATATATGAGTATGATATGATATGATATGATATGATATGATATG
AACTTCGCAAGGCTGTGATCTGCGCCAAATCATTTATGGCTCAATATGAGCGAGTACGAC
CTTGGCTGTACAGTTGAAAAGGCGCAATATTTATTAAGCTGTCTACCGCTTCGAGGGG
ATGGCGGAGAGCTCGCCGAATGCTTGTGAAACCGACAGGAGCAATTTTTTCCGAAAT
TGAAAACGAGCGGATAAGAAATGATATGATAGTACGCGCGGGAATCTATCTGGTCTCC
TTAGACCCGACCTAGGAAGCGAAATCAAAGACACGCTCTTGTCTGATGCTCTCTCT
CCTGAAATACACACTATCTCAAGACTGTGCTGATGCTTCCCATGACGAGCGGAGCGGT
CTCGCCCGGCTCGCGCTCAATGCTGCTTTAGGATAGAGCGGTGTTCTTTTCGCGGA
CGATTAAGGCTCTCAATGAAGCGGATGGCTCAACATCTTGGCAATTTGACACACAGT
ACGGCTGAAAACCTGTTGCACTATTGCGAGACATGTTTGCCTGATTGAATGCTGMAAT
GGATTGCTTCAATATAGTGGATTAACTTTAAACCATACGCTGTTGCTCGCTTAGCT
CAAAGAGACGATCTCTCAAGGTGTTCAAGCACCAAGTGAATCGCTTCGCTACTATTGT
ACTGCTCGCGGCTTCTGCGCTTATCTGATTTTTTGTATTCATATAAGACCGCTCGG
GCTATCGACGCGCTCATTCGCGCGAGCGGGGATCTAGACATAGACACACGCAATTTCAA
GGATTTACCGGATAGTTTCGCGACCGACAGCTAGATTTCGCGCTCGCGGGGAATGAGC
GGATTTTGGTTTCAATATGCTGCTTCTGCTTTGAGGAGACGCGGATGCTGGTTCG
TAAGATACGCGGATATAGTTTTCGCTCGGATGGAATCGCTATTCGCGCGCAGCGCGGA
ATCTAAGACCTGGAATCTAAGAAACGTTTATCGGATAAGTTTCGCTCGGACAAAGTTT
GGATTCCGCGCTCGCGGGGAATGACGCGATTAGGTTTCTAATTTGGTTTTCTGTTT
TGAGGGAATGACGGGATGAGTTTCGAGGAATGACGGGATATAGTTTTCGCTCGGAGT
GATTCTGCTATCCCGCGCAGCGGGGATCTAGACCTTAGACACACGCAATTTCAAAGA
TTATCTGAAGATCGGAGATCTTAGATTTCCCGCTGAGCGGGAATGACGAGGAATGCGG
AATGCGGTTAGCTTCTCTAATCTGCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCT
CAGCAATGATCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCT
TTTTTGTATTAACCTCTAAGAACCGCTCGGCGCATTCGACGCGCTCATTCGCGCGAGCGG
GGAATCAGACCTTTAAGCGAGCGCAATTTCAAAGATTATCTGAAGATCCGAGATTCTA
GATTCCGCGCTGAGCGGGAATGACGAAAGCTGCGGGGAATGACGCTTAGCGTTGCTCGC
CTTAGCTCAAGAGACAGGATCTCTAAGTGTGCTGAAGCACCAAGTGAATCGCTTAC
TATTGTACTGTCTCGGCTTCTGCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCTTCTGCT
CGCGAGGCGGGTTTGGATCGGCTTCTGAGAGGACGCGGATCTCTGAGGTTCTGAG
CGCTTTTAACTCTGCGGTTTTCGCAATCGCTTCAATACCTTCGCGAGTAGTGTGTGAAA
AATGCAAACTCTAAAATTTTAAATACCATATGTTATAAACAACAAAATACCATATA
TCTCTATCGGCTTCAAATACACATCGAATTCACACAAAACGCGAGAGTTTCTT
TTTTCAGACAGGAACATCTATAGTTTACAGACTGGAATCGCGGAAACGTCGCGGTA
TGCAAGCTAAGCGCTTGGAAAGCCGCGCGGCTTAAATTTCTTAACCAAAAAGGAAT
ACAGCAATGAJAAATCCCTGATTGCGCTGACTTTGGCAGCGCTTCTGTTGACCAATG
GCTGAGCTTACCTGTACGGCAGCACTAAGCGCGGCTGAGAAACTTCGCGCTTGTATT
CGCAGAGCGGCAAGTTCTGAGTTTACAGCCCTGACCGGATGCTGATTTCGGTTGCG
AAAATCGGCTTCAAAGCCAAAGACACTCGTAAACGCGCTGAAGGCAATTTGGCAGGTT
GAGCAAAAGCATCTATCGCGGCTGACTGACTCGGTTGGGCAACCGCCAACTTTCATC
GGCTTGAAGCGCGCTTCGTAATTTGCGGCTCGCTGTTTGAACGCTGCTCTGAAGAC
ACCGCGGCACTCAATCTTGGATAGCAAGGCACTATTGGGTTGAACAAAATTCGC
GAACCCGAGCGACGCTCATTTCTGCTAGCTAGACTTCTCGGGAATTTGCGGCGCTCAGC
GCGAGCTGCAATACGCGTTTAAAGCACTGCGCGGCACTAAGCGGATCTTACAC
CGCGGCTTCACTACCAAAAGCGGCTGCTTCTGCTGCAATGCGGCTGCTGCTTAAAGA
CATCATCAAGCTGACAGGCGCTTGAATATCAAAATACCAATCAACCTTTCTGCTGCTG
GGTTAGCACAATGATCGGCTGAGCTTCCGTAAGCGCTACAGCAACAGACGCGAACTG
ACTGATGCTTCAATTTCCCAACACTCTCAACCGGAGTTGCGGCTACCTTGGCATACCG
TTGCGCAAGCTGACGCGCGGATTTCTAGCGCCACGCTTCAAAGGTTTGGTTGATGAT
CGAGCATAGGCAACGATACGACCAAGTGGTTGCTGCGGGAATACGACTTCTCCAAA
CGCACTTCTGCTTGGTTTCTGCGGCTGGTTGTCAGAGAGCAAGGCGAACAATTC
GTACGAGCTGCGGCTTCTGCGGCAATGCTTCTGCGGCAATGCGGCTGCGGCTGCGGCT
ACGAAAACTCTTTCGCGAGACGCTGTTTCTGCTGCTGCTTCTGCTGCTTCTGCTGCT
GCTTTTCTGCTTCTGCTTCTGCTTCTGCTGCTTCTGCTTCTGCTGCTTCTGCTGCTT
TCTGTTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCT
TCTGTTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCT
AAATATGCGGCTTCTGCGGCGAGCGGGAATCTGAGTGGCTGAGTTTACGCTATTAGA
ATAAATTTGAACTTTAATCCGCTCATTCGCGAGAGTGGGATCCAGGCGCAAAAT
CTCAAGAAAGCTTTTACCGATAAGCTTTCCGACCGACGACGCTGAGTCTGCGCTCG
CGGAAATGACGGGATCTGAGTTTCTGCGGAGCACTGCGGAGCAACATCGCTTCTGCG
TCATTCGCGCAAAAGTGGCAATGATGCTGCTGGGTTTCTGCTGTTTAAAGTTTCGGGTA
ACTTCCACTTGTGCTATTCCGCGCGAGCGGGAATCCAGTGGCTGAGTTTACGCTATTTA
GAATAAATTTGAACTTTAATCCGCTCATTCGCGAGAGTGGGATCCAGGCGCAAAAT
GTTTACGCTATTCCGATAAATGCTTACGATTAAGTGTGATGCTAGATCCGCGCTGCGCG
GATGAGCGGCGGAAGATCTATTTTCCGATAATTCGCGCACAATCTAAATTCCTTCA
TTCTCTCAAAAACAAAATCAGATCTCAATCCGATATCCCACTCTGATGATATAAA
AATTTTAAATATATAGTGGATTACAAAACAGTACGGCTGTGCTGCTGCTTACGCTCA

Appendix A

-481-

AAGACAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCGGTACTATCTGTAC
 TCTCTGCGGGCTTCGTGCGCTTGCTCGTATTTTTGTTAATCCACTATATTTTCCAAACGGA
 AAGAATGCCGTGGAAGCCTTTTTCGGTTTTCAGACGGCATTTTTCGTGTACGTTTA
 ACTGTAAATCTTCGGCCCTTTTTCAGCAACTCGACCGCTTTTCCTTCGATGCCCTGGCG
 TTGGGCTTTTTCGTGTGCGGCTAGTCCCGCACTTCTCGGTGATTTCATCGAGCAGAA
 TTTGGGCGCCGACATCGAGCAGAGTGGCGATTTTCGCGCTTCGCGAGGCAGGCTTTC
 GTCGTGAAGCTCTCGGACGTTTCAGGTCGAGGCTTAAGCGAAATTTGTCGGCCAGCG
 GAATCGAAACGCGCTTGGCTAGGGCTGTGTCAGTATTTGTCGGCCGGCTAGCTTTT
 GCGAAATCGCGGAGTGTGAGTGTGAGTATCGCGTGGCGGCGCGGCTGCGATCTTC
 TTTGTCGGCGAGCCCAAAATGCTCTTTTCGGGTAACTGAACAAAGCATCCGCTGCCGA
 CCAGCCGATAITTTGGCCGCCCTTATGCGCGAGGTGATGTGGTCTAGCGGGTGGATGTC
 GGTAAAGCAGCGCGCGAGCTGTAAAGAGTGCCTCAAGCACTGTTCAGCTCTTCGGT
 CATGTTTCTTTGACCGGTTCGAGCGCCCACTGGCCGGGGCTTCGATCATGACTGTGAC
 GTCATGTTTCCACGCTTATCGGTCAATTGGCCCAAGGTGCGAGTTGGCGAATTGGGA
 TCTGCTGTGGCATCGCAATCGAGCGGGGGCGAGCGCTCGCGGAGGTGAACGATAC
 GTCATACGCTTTTATATTTCCGCAATTTTTCGGAATTCGCTTAAGAGAAATTTTCGCG
 ATCATGCTCAACACCATTTTCGCGATTCGAACGCCCGCGGAGACGATCCCGGTGAG
 GCGCTTGGCGGTCTAGCGCCATAAAGCGAGCAACACGCCCGCGCTTATGCTGAATAGTC
 CACGCGTTCCTCGCTGTTCGATGAGGGTGTGCGGGAACAAATCCCAAGTCAAACTCTC
 GGGCATCGCGCGGTTTTCACCAAGCTTGGTAAATCGGCAGGTGCGGATGGGACGCGG
 CGCGTTGCGGATTAATCATCTCGCGCTTTCATGATGTGCGCGGTGGACGATGGACAAATCCAT
 AATCGGTTCGCGGCCCAACGCAACGACCAACCATTTTTCGACTTCTTGGTCAGGCT
 GAGGTTGAACGCGGAGTTGGCCAGTTTCGGTTTATTTTCACGCAAGTTTGGCGCGAT
 AATCATCGTTTCGAGTTCGGGTGTGATGTGCGCGGATTAATCGGTGCGGTGGCGG
 GATTTCTGCGGCAAGAAATCGCGCTGATTTCGTGCGGATGGGTGCGGATGTTCCCAAC
 GAAACTTTGCGCGCGCTGCTGCTTCCAAAGTATTGGCGTATTCGGTTTTCGGGCAATTC
 GTCTAATTTTAAAGCTTCGCGTATGGGACCAACTCATTTTCGGCGGTATATGCTCGTTC
 GCGCGGTAGTGAAGTGGTTCAGTTTCGTCGCGCTTTTCGCGCGCGCGGCGGGGTAT
 TTTGTTGAAACGAGATGGCGGCTTTTCGGATGCTGTCGCGCTTCGATGCCGTTATTCGCT
 GGAAGCTTGGGAGGATTTCCGATTCGCGCGCTTCGTCGCGCGGTGGGTGGGTATTCGCT
 CGCGCAACTTCGCGGAGTGAAGTTCGCGCGCTTCGTCGCGCGGTGGGTGGGTATTCGCT
 GTAGCGGGAATCGCGGATTTGCTTCGCTACCTTCGCGCGGTGTAGTGTGCTGCTGACG
 GATTTTCGCGCAAGGCAAGCGGATGCTGTCGCGGCTTCGCTTCAGATACAGCGGTTCGGA
 GTTCGGATATTTAAAGCAGATCGCGATGCTCTGCTCAAGTCCGCAAGCTCGCGCGCTTC
 GTTCGCGGAAGTTTTCGCGGTTTTCGCGGTATGATATAAAAAATGCTCGTTTTCCT
 CGTTAGAAATTAAGAAACAGGAGCGTTTTCGCTTTTCAGACGGCATTTGAAACCAATG
 CCTCTGAAAGCGAATATCGTCAAAATCCCGACGAGGTATATCCGATCGGATGTA
 AAGGTTATTCGAGCAAGCAAAATCAAGTTCGCGGTTCGTTTCAATATGACCAAA
 TTAATACGCAACATGAACTTTTGAAGAAATAAATTTTCAAAATCAGCATAAACCGC
 CGGACGCGCAAAATTTATGATTTCGCGGAGTAAATGTTTGACAACTATAAAATCTGC
 CGTATAGTTTCACTTTCGACCGGGATGGAGCAGCATGCTGAGTCTCGCGCTCATAAAC
 CCGAAGGTCTGAGTTCGAATCTCTGCTCCGCAACCAAAATCAAAACCGCTCGGTTCAAT
 CGCGAGGGGTTTTCGTTTTCGCTTTCCTGTTCTGTTCTGCGCGCTTCGCTTTTCG
 CGGATTTTCTCTCGCGCGCATATCGGAACCGGACGCGCGCTGTTTTCGGGTTCGA
 AATTCAGCAAGTTTCGATCAATCTTCGCGATGTTCTACAGAAAGCAACGTGCGAC
 GCTCGCTTTTACCGAATCGCTGACCAACCAACGCTTCATGCTGCTGTCGATGGGCAAA
 AGCAAGTACGCTGCAAGAGTTGCTGGAACCGTGTATCTGAACGCTGCTGCTTTGGG
 CAACCTGTGCGCGATGCGGTGGAACGCTCAAAAAGACTGGGAGGCAAGCTGCTGGGA
 GTCTTCAGACCGCATTTTCTGAATCGGAGCGCTGCGCTGATATGGCGGAGCTTACG
 CACCTCGCGCTTTCGCTGCTGCTGCTGCGGCGCTTTCGACGCTGGCGCGCTGCTGTT
 CGACTGACCGAGCGCGCGGCAACCCCTTTCGACGCTGACGCGCGGCTTTTCGCTC
 TTTTCGAGCTTCGCGCGCGCTGCTGCTGACGCTGACGAGTTCGACCAAGCGCGATG
 CGATTTTCGATGACGCGCGCTGCTGCGCAAAAGACTGATGTCGCAACAACTGACAA
 TACTCGCGCGCGGCTTTCGCGCGCGGAAATGCCCTCTGAAGCGCTGTGTCGCGCAAG
 CACCGAAGACGCGGTTTCGATAAACGCTGCTTCGCTCATTCGCGCGGTATCGCAGCT
 GCACAGCTTTCGCTGCTGCTGACGCGGGGTACACAAATGAAATCTGTATGATTGATGTC
 CGTCTGCGCGCAAACTTTCGCTGCTGAAATCAGGATGCGGAGTGGCGGCTTTTCGAA
 AATGGACATCGCGGCTGCTGTTGATGCTGATGTTGCGGGAACATGATGACAGCGCGCA
 ACTGTTACGCTGACGCGCTTTTCGCTTACGCTGATTTGATGCGCGCGCTGCTGCTGCT
 CTAAGAAATCGGAGCGCGGCTGCTGCTGCAAAAGACTGCTGCTGCTGCTGCTGCTGCT
 AAACGCTTTCGCGCAATAAACCTCGCGCAACATGCTGCTGCTGCTGCTGCTGCTGCTGCT
 ATACTGCGGCTTTTCGCGCGCTGCGGCTGCGGAAATCCACCTGCTGAATATAATTCG
 GGGATTTTCGCGCGCGGACGCGCGGAAATATGCTGACGCGGAGAAACATACCCGTATG
 CCGCGCGCAAAACCGCGTATCTGCTGATGTTTCAAGATTCGCGCTGTTTCCCATATG
 AGTGGCTGCGAAATATGCGCATTCGGTTTGAAGATGCAAAATTCGGAAGCGCAAGCC
 GAACGCTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CTAAGAAATCGGAGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CCGCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CACGCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 CACGCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT

Appendix A

-482-

GTCCGCTCCGCTSATGCTCTTTAAAAACAAAATGCCGCTGAAAACCTTTTCAGACGGCA
 TTTTATACCAACGACGCATATTTTTTATCAGGGCTGCAAAATTTATATCGAAACAC
 AACAACTCTTTTCATCGTCATTCCCGCGCAGCGGGAACTAGAACGTAAAATCAAAGAA
 ACCGTTTTCCCGATAGTTTCCGTCGCGACGACCTAGATTCCCGCTCGCGGGGAATG
 ACGGATTTAGGTTTCTGATTTTGGTTTCTGTTTTTGAAGGGAATGACGAGACTTGAGAT
 GCGCGCATTTATCGGGAGCAACTGAAACACCCTCGCGCTCATCCCGCAAAAGCGGGAAT
 CTAGAACCCAAACGCGCAAAAATTTATCGGAAGCGACACAACTCTTTCTGCTCATTTCC
 CGCGAGCGGGGAATCGAAGACGTAAATCTAAAGAAACCGTTTTCCCGACAGTTTCT
 GTCCGCAACAAAGTCAATCCCGCTCGCGGGGAATGAGGAAATTTAGGTTCTGATTT
 TGGTTTTCTGTTTTTGAAGGGAATGACGAGCTTGAGATGGCGGCAATATATCGGCAAC
 TGAACACCCTCGCGCTCATTTCCCGCAAAAGCGGGAATAGAACCCAAAGCGGCAAAA
 TTTATCCGAAGCGACACAACTGAGACCTTTGCAAAATCTCTTTCCCTCAACACGCC
 AAACCCAAACACAGGTTTTGCTCTATTTTCGCCCAAAATACCTCTCAATTCACCCAAAT
 ACCCCCTTAATCTCCCGGATACCGCAATATCAGGCATCCGTCGCCCTTTAGCGGGCA
 CGCGGGGCACTTAGCGTTGTGGCGGCTTTCAACAGGTTCAACACATCGGCTTCAGATGG
 CTTTGGGCTCACTTATCATGTCGGAATAGCGCTCGCGGGCTAGCGGAATTTAGG
 TCCAGCTCGCGAAGCTTGTTGCGACCACTAACGGGTTCTCGACAAATATCGTTGCGT
 TTGTTTTGCCCTCGCTCAGCGGAGCGTTGGCGAGGCTTTGCCCATATATAGTGGATT
 AAATTTAAACAGTAGCGGCTTGCTCGCTTGGCGTACTATCTGTACTGTTCGCCGCTT
 CGTCGCCCTTGCTCGATTAAATTTAATCTACTATAATGTGCACTTTCTGATATAGCT
 TCCGCACTCGGTGCGGGATGTTGTTTGAACGAGTTTGTAGAGCGCTTTTCTTCATC
 CAAACGGGATCGCTGCTTACTTACTCGGTGTGGTTTGGCGCTGACTTGTCTCTTCATCG
 ACTTCTATGGGCTGACGCTGTTTGGCGTGGCGGCTCGAATATAGTGGGCTCAAGACG
 CGCGGGATGCTTCTGCTTTTAAACCTTTTGGGCTGACGGGCTTATCAGTTG
 AGCAATTCGACAGCGGTTGCTCTTCCGCGAGCGAGTTGGCGTAGCGGATAGGTGCTG
 TAATCGGGATGCTCAGTTCTGTCGAACCGCAAAACAGGTTGAAGTCGATCGGGTAATG
 AGGCTGTGTTGAGTTTCGGGATCGGAGGCGTGGCAATGTCCGACAGGACGCGCTTG
 AACATGGACAGCAGCGGATAGGCGGACGGCGCGGTGTCTGAAGGTAAAGGTTTTT
 TGACGTTTCAGGTATGTTGTCGATGGCTGCCAATCACTACTTGATCCAACTTCATPAA
 GGGAGCGGTTGATGTTTGGCAATCTGCTTGGGCTTGGCTGGAGGAAGGTCCT
 ATGCAAAATCTGCTGCTTTCTGCGGATGAGTTTGAAGTTTGAAGTTTGAAGTTTGAAG
 GTTTCGCGACCGCAAACTAGATTCCGCGCTCGCGGGGAATCAGCGGATTTAGGTTTC
 TGATTTGCTTTCTGTTTTTGAAGGAATGACGAGACTTGAGATGGCGGCTTTATCGGA
 GCAACAGAAACCACTCGCGCTCATTCGCCGGAAGCGGGAATAGAACCCAAACGCGG
 AAAAATTTATCGGAAGCGCAACATCTTTCTCATGTCATCCCGCGAGCGGGAATCT
 AGAACGTAAATCTGAAGAAACGCTTTTCCGCAAGTTTCTGTGCGGACAGACTAGA
 TTTCCGCGCTGAGGATCAACGGAATTTAGGTTTCTGATTTGGTTTTGTTTTAG
 GGAATGCGAGTGAAGACAGCACTTTCGAGGCACTGGAACAGCTTCGCGCT
 ATTCCCGGAAGCGGGAATAGAACCAACAGCGCAAAAATTTATCGAAGCGCAAC
 AATCTTTTCTATCGTATTCGCGCGGAGCGGGAATAGAACGTAAATCTAAAGAAAC
 GTTTTTCCGATAGTTTCCGTCGCGCAAACTAGATTCCCGCTCGCGCGGAATGAGC
 GATTTTAGGTTTCTGATTTGTTTTCTGTTTTTGAAGGAATGGCCGATTTTGGGTTTCT
 GTTTCGGTTTTCTATTTGCAAGATGCAAAAATTCAGATTGCGGGCATTTGTAAGTAT
 TCTATTTTTTACTGCGGATTTATTCGCGGCTTGAAGTGGCTTCTCTCTGACAG
 ACAGCTGTTTACTGTTTGTATGACTTTTCCGACTTCTCTGTTTCCGAGGATGA
 TTTCAAAATCACTTCCGAGTCTCGACATTTGCTCGGAATGATTTTTCAGCG
 CGAGGATGTTGTGGGTTTCATGAJAAAGCGCGACGCCCATACCCAATAAACCGCGG
 TAAACGCGGTATCGCCCGCATCTCGCCCATACGGATACGCTTTTGTCCATCGGGTTGG
 CGGTACGGATGAGGTGTGACGATTTTCAGCACGCGGGATGGCGGCTGTGAGAGT
 GGTGACGCTGTGCTGCCGCGATCAGCGACAAGATGATTGATCAGGTGTTGTTGAT
 CAGCGGAGATGAATCGACGACTTTCAAAATATGCGCGAGGTGAGCGCGGACAGCGGA
 TTTCAATCATCAGCGGATGCGCACTTACGGAAGCATCGCGGTTGGCAGCTGCG
 GTTGGCGGTTGTTGAGCGGATGAGCGATGCGGCACTTCGGATGAGGATTAATCG
 GCGCATCATCCGCGAGCGGCGCTGTACCGCGCAGGAGATGGCGCGCATTTGGGCTG
 GGAACATCAGCGGTTGCGCAAGGCACAGCGGATCGCGGTCATGCCAGCGCGGGTTGA
 GGTGCGCTTGGCGCTGCTGTTTTTCCGAACAGCGCGGTTTTTGTCAACACTAAAT
 CGACTGCGGATGTTGACGCTTTTGGCTTCTATTTTTTGACAACTCGCGTACACTT
 CGTACTGCTGCTCTTTCAGACGCGATCGTATCGGGTTAGGTAAGAAACTCGTTCGGA
 ACAGCCGATGCGGCTGTGCGCGAGGTTGTGACGCGGTTTACGCTTTCGGCGATTCTA
 TATGCGCAACATGACGCGCTCGCGCGGCGCGGCTGCGGATGAGTTTGAAGT
 TGTCAAAATCGGTTTGTGCTGCGGTATTCGCCGCAACGGCGGATATCTTCAACGA
 CGGCTCATCCGCGCGGATATCAACACGCGCTTGATACCGTCCCAATGACGCTTTCCG
 CTTCCGTAATCAGTTTTGCGCGGCTTGTGACGCGGACGACGAGGAGGATGTCAGGCTC
 TGCCCAAAATGCGGATGTCGCCGTTGGGCGCGCGCATCGGTAAAGAGCGCAATGCG
 GCTGCTTTTAAACAAACCGCTGTCCGCGGGCGAAGGTCGTTGCAATCAGAACGGTTT
 CGTCAAAACAGGTTGTGCGCACTTCACTACTTTCGCTGCGCGATCAGGTTGTGGA
 TGTGGCGGAGCTGCGCAATCTGCTGCGTTCGCGCAAAATGACGCTGCAAT
 TGTGAAATTTGGCGAGGTTGTGCGCTTGTGCTGCTCAATGCGCATCGCTGCGCTG
 TTTGTTCCCTTAAATATCGACGGTTTCGCGGCAAGGTAACATCGGTCAAGACATCA
 GGTGTAGCGAGATGACGCGCCAACTCGGTCGGGCTTTTCGGGAATCGCGCTCGGA
 GCTGTTCACACTTTTTCGCGGTGCTTTGACGGCGGATGAAACGTTCCGCTTCGGCAT
 CGGTGTCGCCCTCGGCAACATCACTACTCGGCACTTCTCCGTACCGCGGCAATCAGG
 GGGCGCAACGCGGCAATGCTTTTCGCCGCGGACGCGGTCGACGACGATCTCATTA
 TTCGCCCTCGCGAGTAGGCTGTTGATTAAGTGGTAGGCGCGCATCTGTCGCGCTC
 GTCCGCGCTCGCTCTCAGTTGATGACCTGACCTTGGCGGGCGGAGCATATCAG

Appendix A

-483-

CCCCATAATGCTTTTGGCGTTGACGGCGGTGTGCTTTTTCGTAAACCCAGACTTCGCTTTT
GAATTGGGACGCGTTTGGTGAACCTGTTGGACCGCGCGCGGTGGAGTCCGAGTTTGT
GATGATTTCGATGATGCTGTTGATTTGATTCGCGGATATGATATATCGGACGACAA
GCGCGTTTAAAGATGTTTTCGCGCTCGCGCTTCTTCAGACGCGCATCGCGCTGCGCGCG
CACACCAAACTTCGCGGCGCGGACGTGATGCGAATAAGCTTTTACGCGCGCTCCGTC
ACGCATTCGCTGAAGCGCGCAAGCTTCCGCGCGCGCGCAATATGGACGGCTTAAAC
ATCATCGCGCGCTTCAGCGCGGTCAAAATGCGCGATTGTTTTCGCGCAGCGGCGCGCG
CGCGGATTGCAAGCGGCTCGCACCGAATAATCGGTCAATATCAGCAGCGCTGCTGTTGCG
GAAATTCCTGAAGCGCGCAAGGCTGTTGTTGATGTCGTTGATGCTGCTGCTGCGCGG
TGCACCGCGGATGCTGCTGTTTTCAGGCAATGCGAATAATGCTGCGCGCGG
TTCGCTGAGGCTTCGCGCTAGTGGTTTCGCTGTGATGATTAAAGCCCTATCATATTATGCG
GTCTCTTCTCATATATCTCGCGCGGTATGGCGCGGATGCGCTGTGAACAGCTTCAGAG
CGGCATCGCGCGCTATTTCGCGCAATGCGTAAATCGCGCAATGTTGCGCGCAGCAGC
CGCGCGCATCATGCGCTAACGGAACATAAGCGTTTCGCGCACATCCAGTCGACATAAT
CGGCTCGGATAGGCTTGGGTTTGCATACGCTTGTTCGCGAACACCGCGCGCAGCGGACG
TTGCGCGACCAATTTCCAAAGTTTGGCTGTAATGGCGGGAATGATGATGCTTCTGCTCA
AAATATCGTCACGACGACGATGCTGCGCGGATTTGTTTCGCGCATCGCGCATCGCT
TCCAGTTGAACGCGCGCGCTCCAGCTTTCGCGCGTAACGCGGAACGTAACATATACAA
AATCTAAGGGAACGCAACAGCGCGACGAACTGCGCGCTAAACACGCGCGCGCGCA
TCACGGGCGCAGCAGCGGATATTTCGCGCGCAATCAGCGCTAATCTGCTCGCGCACCT
TTTGAGTGGCGCAGCGCAATTGGCTTGGTCGAACAAAGATCGCGGCTTTCAGCATCG
CGCTGTTTCAAGCGCTTTGGTTCTAATCGGTCAATGTCGGAAATCGGTCGGTGGTAGAAG
GAAATATATAACCAAGATATCGGAATCGCGCTGAAGTCTTCGCTGCGCGGTGGTAGC
CACGCGACAAATGCGGATTTTCGCGCGCTTCGCGCGTGAACGACGTAAGCGATG
GGTAACGAGCTGCGGATTTGGCGCGGCTGTCGCGGCTTTATCTTTGAAGACGCTGCG
GATCGGAATTCGCGCTGCGGCTTTTTCGACGCGACGCGCGCGCGCGCTGCGCGCTTTCG
CCCTTTCGCGCTAGTGTGCGCGCTTACCGTGCATCTGCTGCTGATTGGCTTTTCAGCTT
CAATAATTGGCTGCTCTGCGCGCGCTGTACGGGATTCGGGCTGACGAGCATCAGCGC
TTCGCGCGCTGCGCTTCGATTGTTTAAAGGCTCATCGGTCTGCGCTGCGCGCTGCGCGC
TTTGATTTCGCGGATGATGGTAATCGCGCGCTTCGAGTGCCTTTTCAGCCTGCTGCTGCG
GACTGCAAAAGCTTTGGTAGGCTTCGCTTCGCGCTTGGGTACATGAAACGCTGCAAGCG
GATCGCGCGCAACGACGACAAACAGCGGATTCGCGGAAATCTTCGCAATG
ACGCTCCGCTATACATTTGCGCTCCGAAGGATGAAGCGGAATCGAGCGCTAAACCTTT
GGCGGAGCAACGCTGAGCGCTGACGGCTCATCAGGTGCTTTTCGCTCCAATAGGCGGG
CAGCGCGTGGAGTTTCTGCTCATCGCGCAGCGCGCAATCTCGCGCTTTGATTCTCTG
CGCGCAGCATCAATCCGCGCGCGCTGTGATGAGGATGAAGACGCGCTTAAATACG
TATGATGCGCGCGATTGCTCTTTAATCATCTGATTCGCCCAATATAAAAGGGCGCGCA
AACCGCATATAAACAAACGCGCAACCGGATCGCGCTGCAAAACGCTTTAGGACACGCG
GATGCGCTAGCTGCGCGGATTCGCGCTTACCGCTTACCGCTTACCGCTTACCGCTTAC
TTGGACACGCAAAAGCGCGCAACCGCTCTGACCGATGTCGCGCGGACGCTGCGCTTCT
GCTGCAAGCGTTGGCAACCGCAAACTTAGCTCAGCGCAATCGGCTGACGACGCGGCA
TCTGATCAGCGCGGCGCGCTGGTGAATGTTGAACGCAATAAGTCCCTGTCTCTCG
GCGCGATCGGACGATGAATTCGCTGCCAATCGCTGCGCAACCAACCGCGCAATACGG
ATTTCGCGCTCTCGCGCGCTTTTCGCGCAACCGTTCGCTGCAAGAGCGCAACGCTCAC
GGTTCGAGCGTATGCGCTTTCAGGCTGCTCATTTTCGCGCGCATACGCGCGGACATATCT
CTTTATTTGTCGAGCGGGAATTCGCTGATTCGCGCGGACGCTGCTTTTACGAACCAT
AGGCAGAACGATTTTCGCGCGGCAACCGCGGACTTAATCAATAATTCGCAACAA
ATTATTACCTCTTCCGGAACCGTGAAGTTGTCGCGGCAACGCGCGGTATGACTTCAT
CGGACAGAAAGCGGCAACATCGGTTTTTCAGCGCTTCCCTACGCTTTCAGACGG
CATCATCTGCATGATGCGCTGTGAJACAAAGGCTCAGACAACCGCGCTTTCGCGG
TGTACTCTCGCGCAAGCGTTTGTGAAGTACTTGAACACCCAAATCAGAACGAT
ACAGTTACGCGCGGCTTTCGCGATTCGCGCGCGGCTGAACATATTATTTCGCAACAG
TCAGACTGCTTACTTCGCGCGGCTGATTCGCGCGGATTCGCGCGGCTGCTGCTGCTG
GSAACGCTGCGGCTTTCGAGGCTTTTCGCGCTTTCGCGCGGCTTTCGCGCGGCTTTCG
TTTCTGCGCGGCTGCAACGATTCGCGCGCTTTCGCGCAAGTTCGTTGAATGCGCGCTG
AAATGCTTTTCGCGCTGATGATGCTTTCGCGCGCTTTCGAGCGCTTTCGAGCGCTTTCG
GACAACTTGTGTCAGCTTTCGCGCTTTCGCGCGATGCGCAGTGGCTTCTGATTTC
CTGCTGTTGCGCGCAATATTGCGCACCGCTTCAAGTCCGCAAGCTGATGCGGCTGCGG
GACGACATAATCGGTTTTCGCAACACTTTCGGAACGCGCGCGCTGATCTTCGCAACG
CACAGGCTAGCGGCTGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCG
TTCGCAATCGGCTGCGGATTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCT
GTGTCGCGGCTTTCGCGCTGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTC
AGCTGTCAGCGAGACTTTCGGAATCAATCAAACTGCTGTTTTCGCGCGGCTTTCGCGCG
AACGCTGCGGCTGAGCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCG
AACACATATTTCGCGCTTTCGAGCGCGGATTTTCGCAACCGCTTTCGCAATCAT
CTGCGCCCAATTCGCTGACCTTATTCTGCGTACCGGCTGCGCGCTTTCGCGCGCTTTC
TGCTCTGCTGCGCTGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCG
CAGCGCTTTCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCG
CGCTCTGTTTTCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTCGCGCGCTTTC
GCGGCTTTTTCTTCCAAATCGTGTGCGAAGATTTTGAACCTGATGCTGCTCAAACTTTT
GCGCGCTTTCGCGCGCAAGGACGCTTCTCTCAGAGCAAGCGGCTTTCGCTGATTTTCAG
CGTTGCAAAAGCTGCTTTTCAACCGCAACCGCTGCTGCTTTCCTGCAACTCGGTATG
GACTGCTCTAACCGCTTTCGCGCTTTCGCGCTTTCCTGCGAATGGGCAATCTGTTTTC
GGCTGCGGCAAAAGCTTTCGCGCATCGGAAGGCTGCTTTCGCGCTGCGCGCAGCTTTC
GGGCTTTCCTCAAAATCGGTTGATCTTTCGCGGATTTTCGCGCTTTCGCGCATATTG

-484-

[illegible]

Appendix A

-485-

[illegible]

Appendix A

-486-

ATGTCGGTTTTCGCCATCACTTGTTCATATTGGAGAGCATGGCTTGGAAAGACGGGTTC
CTTTGGGGGTGGGAGCGTGGAGCGGAGGCTTGGGTTTGCTTCGACAGATTTTC
ACCGCGCTGCGCAAAACCGTACCAAGCGGAGCATGAGCGGTTTCGCATCAGAAAAAT
ACCCACGGAAATCGCGCGAAGTCCTGAATCCGCGCAAGGTTTTCGGCGTGGCGGACGG
GTGCTAGGTTTGAGGGTGGGATTTCTCGAATGGCGTGGTTTCGAGAAAGTAGTCGATG
AAGTCGGGATGGGTAACTAGTTCGCGGTAGTATTGAACGATACGTCGCAATCGCTCGT
ATCAGTTTGGCATCAGGGTCTTTTTATCCGCGAGATGCTGGCTTCCAAAGTCGGGGCA
ACCAAGGTTTTCAGATTGGCTTGGGATTTCCGCGGGTGGCTGATTTTGGCGGTAAAGCAT
TCGCTTTTTCGGATGAGGATTTTCCGCGGCACTTCGCGCGGCTTGGCGGAAATG
CTTGTGTAGAAAGCGCGCGCGCGGCACTTCGCGCGGCTGGCGGATGCGGAGCGG
ATACGGACATCGATTTTTTGAAGAGTTCGACCAACGCCAATTCGCGCTGATGAGGCGAC
CATGAGCTTGTAGCTAGCGCGGCTCTGTTGGAGTCCGGAATAGCGAGCATGATTTC
TGGATGTTTCACGGCTTTCCAGCGATGCATCTGACAGTCGAGGCGGAACATGTTTTC
ATGACCGGACAGGCGTTTTCCAAAGCTTCAATGGTTTAAACAGCGGCACTATTGATG
CGGCTGTGCGGTTTTCGCTTTTCCACGCGCAACAGGCGGTTTCTTTTACGAGCAATGAC
AAGCGAGCAGAGTGGCTGGGTTTTCGCTGTTTGAATATATGCTTTGCTTTAGCGCATC
TCGCCAAATTCGCTTGTATTTCGCGGCTTCTGTGAATTTGGCAGTTTGGCGGGTA
TGCTCGCTGTATGTATAAAGCGGCTTACACAGGACGTTGATGGCTCAATTCCGCGAAC
AGGCGGTTTGTTTTTGCTCTTCGTTACGCGGTTGTAGTCTTCGAGCTCGCTGTTGG
AAAAGCTCGGCAACCATCGCGCTGTTTGCCTCGCTGTTGGCGAAGTCGAGCGGCATC
ATGTGAAGCGCAACCGGATACGGAACGAGTGAAGCTGCGCAACGGCTTTCGCGCAAG
AGACGGCTCGCGTTTTCGATAGGGAAGCTTGCAATTTTTTCAAAATCATCCAGAAATCT
TGCTGGCAAGCATAGGCTCGAGAAAGCGAATTTGCAAGCATACCAATCAACCGAGCG
CGCGTTTTCGCGGAGCGCGCATATGAGCAAGCGCGCGCGGTAGGGTTCTCG
GCGCGCGGATTTCTTCTCGCGGCGATTCTCGGCAACGCGGTTACATCGCGCTTGAAT
TTGACGCGCGGATGAGAGCGCGGAGTTCGCGGTGAGTTTGTGAGTTTGGCGGATAG
AAGCGGAACACGGCATCGGCGTGGCGGCGGAGGCAAGCGCAGGTTTTCGCGAGAAACA
AACGGATTGCGCTCGCGTTCGCGCGCATCCAGCGCGCGATTGTAGGATGTCGGAAG
CGGACGCGCGGATAGGCGGCTCGAAATCGGTTTCATCTTCGCGGTAGAGCTTGGGACG
GCTTCGAAAGAGCTCATCGGAGAGTGGACACGCGCTTGTTCATTGCTGTCGAGCTG
TGTTTGTGGCGGAGTTCGCTGCTGCTGCAAGAGATGGAATGTCGATGTTGCGATG
GCGCGCAGCGCTGCGACGCGCTCGCATTTGGTCAGGCTTTCGCTGCGCAACAGTCCG
CGATCGCGCGGTTGAAGCTTGAAGCGTTTGGCGTTGACCTTCGCTGCGGTTGGCGGTC
AAAAGCGCGGTAAAGGACGATTGTTCACATCGCGCTGACAGGATTCGCGTGGCTTTC
CGCGCTTGAAGCTCGCGGAGGCTTTCGCTCAGGCTGCTTTCGCGCGCGCGCTCGCGCT
CTCTGTGATTTTGGCGCGCGCTTCGCTGCTGCACTGCTTCGCGGATGTTCAAAATCTG
GCGACAGGCGCGGACAGGTTAAATCGGCTTGGTGTGTTGTTGCTGATTCGCGAAT
ACTTTTCAATCAATGCTGCTGCTGCTGAGATGGAACAGATGTCAGTGTTCGCA
ACCAAGCGCGGCTTCTTCGCGAGGAGTTGAACAGGATGTTTTCAGAAATCCGCG
TCCGCGCCCAAGCGCGCTCTTTGAATTGTCAGAAATGCAAGTGCATGATTTTTCTC
TCTCGCTGCGGTAATATTGTAATGTACCCCAAAATGCGCATCGGTGCAAAACGCTC
ACACTTTAAGCGCGCTGTCCGAAATGCGCTCTGAAGTTGAACGCGCGCGGACGGCAGC
GTTCAATCGCGCGCACTGTTTTTTCCGAACATCATGACCAACGACGCAACAGCAC
AAGCAGATGCATTTCTGCTGCGGTACAGCGGCACATCTTTCGACGAAATCGGCATC
GAAGGGCAGCAAGACTTTCGCGCGCGCATTTTGTGCTGCTGCGCGGCTTGGGT
GCGCGCGCACGCTTACTTTCGCGCTTCGAGTTCGCGACGCTGACATATGCGAATTC
GACACGCTGGAATGCAACACTGCAACGCGCAAGTCGATTTGACGAGGGCGATGTCGCG
AAACTCAAAACCGAAGCTTGGCAGCGCGCTGAAACGATCAACCATACCGTCAAGCTC
CGCGCGCTCAACGAAAACTCGAGGCTGCGCGCTGACCGGTTTGGTTCAAGCGCGGAC
ATCGTTTTAGACATGTTTGGCAACTACGCGCAGCGGCAACCGCTCAACGCTGCTCGGT
CAACGAAACACCGCTGGTTTCAGGGCGCGGCTGACGCTTGAAGGGCAACTTGGCGTG
TACGCTCCGACCTTGCAGGCTGCGCGGTGTTACGCTTGGCTTTCAGCGGCGATCGA
TCAGAGGCGCTGCTGCTTTCGCGGCTTTCGCGCGCTGCTGCGGCTCATCGCATG
ACCCAGCGCGCGAGGCTTCGAAATCTCTGATGAGCGGCGGAACGTCGACGCGAGG
CTGCGGCTTACGCTGCTTGGAAAGGGGCTGGCAATATTTCGACCTGCGCGCAACCTC
GAATGCGCGGTTTGGGCAAGCGCGATAACCTGCGCGCTTTCAGAGCGCATCCAAA
CGGATGCGCGCGAAGCGTTTAAAAATTTAAAAATTTACATTTCTTTCGAAAAAAAAA
AAAAAATAAATAACTTACCTTAAATAATGAAATGTTTAGCAATGTGTTTTCGCAAGCTC
ATTGAGTAAACGTTTTCCTGTAATGTTTGGCGCTCTGCTCCCTTTGGGTGGAGG
GCTTTTGTGGGAGGCTTTCGATACCGGCTGTTTATGCTTTCGCGCGGAGGCGAGG
CGCTTATTTCCGTTTCGCGCGGAAAGCGTTCATCGATAAAGCAATTTTCCGACGAT
ATTAAAGTTATATGGGATTAACAAAAACCGTACAGCGTTTGGCTGCTTATGCTCAAGA
GACAGATTCCTAAGGTGCTGAAGCAGCAAGTGAATCGGTTTCGCTACTATTGTACTGTC
TGGCGCTTCTGCTGCTTGTCTGATTTTTGTTAATCACTATATATCTTAGGTTTGCATC
GGCGGAATTTCAACACAGGCTTTTTTAAGGAAATCGGATACGGCGGCGCATCAATAA
TGGCGGGAATCTGTCGCGCGAGGAAATCGGCTTCTGCGCTCGGAGTCTCTGCTGCTG
ATTTTGTATACGAGGCTTTCGCAACGAGCTGCTGCAATCTACGCTCTGCGCATCG
GCGACATCGGCTTTCAGGCGCGGCGATGCTGCTGCGCAAGCGGATTTGATCTCAGT
TCGACAAATCGCGCTTCAACTCTTGAACCGCTTCAATTCAGGACCATCTGCGGCAATC
CAGCGGCAATCAGCGCGGATGTTGATGGATGAAGTGGGATCGGATCAACGGAATCGCG
ATGTGCTGCTGCTGCGCTGCGGCTTTCAGCGCCATCTGCGGCGCAGGCTGGAATCGGAC
CGAGCGAACCGGATCGCGCAACGCGCGCGCTGCGCAATGGGACGCTGCGCAAGC
GGCGAAAAACCAACCGACACCAAGGCAATAAATCGCGCAATAATCGCAATGAGT
GAAAGGACGAACCGATGCACTGCTGATAAAGCGCAACGCGACGATCGCATGCG
GCCATACCTTTCGCTGCGGATATGCCATATGCTTTTCACCAACGCGTGAATATGC

Appendix A

-487-

[illegible]

Appendix A

-488-

AATCCGGCTTCAGTGTGTTTTCGGTGGCAATAGCTGCAACTGGCGGCTGGAGCGGC
 GATGATTTTCTGAGTCTCCGCTTTCGGCAAGTGTTCGGACGG
 GATCTTTTCTGCTGGCGATTGGCAACGGCGCGCTGATTGCTGTGGTGGTGTTC
 GGGCGACGAAACAGCGGGCTGAAACCGTTTCGATCTGCTGATGCTGTGGCGGTT
 CTGTGGCTGAGTGGCGAAGTCTTTTCACGGCAGGCAGACCGCGCAGAGTTTCAGAC
 GGCATGAGTTTCGGAAACGGCAGTCGAGCTGTCCGCCGTGATGCCGCTTTCTGTGGTTCGG
 CTTCGGCGGCACTACAGCGCGCACGGCGGCCGCGCTTTCGGCAACCTCGACGGCAACG
 CTCGCTTACAGCTGACCGGCTGCTGGATGATAGCTTTGGGTTCGGACGCGGCTGTGTC
 ACCGGAAACCTGCTGCGAAACCTCTCTGGCGGCTGTGGTGGCGGCGGCTGATC
 TTGGCGCTGGCTCTTCCACGCTTACACACAGCTTTCTCGATGCTTATCCGCGCGCGG
 AGTGGCAACACATTTCCGCGGCTTTTCGGAAACACCGCTGCTGTGGCGGTACCGCTG
 ATCGCGACGCTACTTGCCTCATGCTGCCGCTTACGAATATGAAACCTTCTGCTGCTT
 ATCGGCTCGGTATTTGGCGGATGGCGCGGTTTGATGTCCGACTTTTTCGCTTTGAA
 CGGCTGAGGAGATTGAGGCTTTGACTTTGCCGGAAGTGTCTGCTGCTGGCGGCTTCT
 ATCTCTACCGGCTTCTGCTCTGTCGGCTGGGAAGCAGCATCGCTTCAGACGGCGGCT
 CTATGCTTACGGCTTGCATTTCACGCTATCGGTAGCGCTTTCTTTAAACAAACCTAA
 TCTTTACAAAGAACCGCTCATGACCCGTATCGCATCTCGCGCGGCGGCTTCGGGAA
 GCGTGACCGGCTGTGAGCTTGCAGAACAGGTTATCAGATTGCACTTTTCGATAAAGGCT
 GCGCGCGGGGACACAGCGCGCGGCTATGTTGCCGCGCATGCTCGCGCTGCGCGCG
 AAGCGCTGACGACCGCGCGAGTGGTCAGGCTGGCGAGGCAGACATCCGCTTTGGC
 GCGCATCGATCGCTGTGAACACGCACACGATGATGACGGAACCGCAGCTGATTG
 TGTGCAACGGCGCAGACAGCGATTATCCAGCGAGTTGCTCGCGCATCTCAACCGCGCG
 GCTTAGCGGATGACGAATGCTCGTTGGCGCGCAGCAGCATCGCGCGCAACCGG
 AACTCGCGGCGCTTTGACAGCGCATCTAGCTGCGACGAGCGCAGCTGCGAGCGG
 GCGAATATTGCTGCATTCGCGACGCTTGGACGAACGACGCTCCCTGCCATTGGG
 AACCGAATGGCTCCCGAGGCTGCAAGCCCAATACGACTGGCTGATGACTGCGCGG
 GCTACGGCGCAAAACCGCTGGGAACCAATCCCGGAGCACACGAGCACCCTGCGCGCA
 TACGGCGGAGTGGCGGGTTTACACACCGCAATACCGCTCAACCGCGCGTGGCTC
 TGCTCCATCGCGCTATCCGCTTACATCGCCCGCAAGAAACACGCTTCTGCTCATGG
 GCGCGCCCAATGAAAGGAGCAACCGCGCGCAGCGCTGCGTTCAGGTTTCGAC
 CTGTTGCGCGGCTTACCGCGGCTTACCGCGGCTGCGCGGCGCATCTCGAATAC
 CCACCGGCTGCGCGCCACGCTCAACACCAACCGCGAATCGGTACACACCGCGCC
 GACGCTGATTGAATCAACGGCTTTTCGCGCAGGCTTTCATGATCTCCCGCGCGTAA
 CCGCGCGCGCGCGAGATTGGCAGTGGCAGCTGTTGACGGAAAGACCGCGCGGACGG
 ATAAAGAAAGCGGTTTGGCGTATATCCGAAGACAGATTAAAGCGCGCGGAAAGGACAC
 TTATGACCTTCCCGCCCTTAAACCGCGCTCAAACTGTACGCGCTGCTCGCGCGCGG
 ATTGGGTGGCGGATGTTCAAAAGCGCTGGCAACGCTGACGCTGAGCTGCGAAGGCG
 TGCACGCGATGATTGAGCTGCGAATCGCGCTGCGCGCGGCTGCGAGCGGCTG
 GTACGACCTTTTTCGACGACCATGCGCGGAGCAGCATGAAGCGGGCGGTATCGG
 TGCACTCTCGACAGAAGACATGGACACCGCGACCTTGGCGCATCGCGCGCGCGGTT
 TGGCTTTGGTTGAGTACGCACTCGTTGCCGAATCTGACCGCGGCTGCTGCGTACACC
 CTAGCTACATCGCGCAGCGCGCGGATTTCGCCGACACGACCAACAAATGCCACCGCGC
 CGCAGGCTTGGACAACTGGCGGAATACGTCAACACAGCAGGCGCGCAGCGCGTGTG
 CCATCGCGCTATGACTGACCAACCGCGCGGCTGCTGCGCAGCGGCTTTCTCATC
 TGGCGCGCTGCGCGCTTAAACGAGGCGCAATCCGAGGCGGTGTTAAGCGCTTC
 AGGCTTTGCGGATGATAAACCGGAAGAAATTAATTCGCGCTGAGGCAAACT
 TAGCCGCTATCGCAACACTACTTAATTAATTTAGGCACTATCATCAATTCGCTCAT
 CCGCGCTAAGCGGATCTCGGCTTAAACTTGAGAAACCATATTGAAACACAGTTTC
 GAATTTCAAAATAGATTCCCGCGCGTGGGGAATGACGCGACCGCTCAGTTGCGTATC
 AAAAAATAAGATTAATTCGGCTAGATATAGTGGATTAAACAAATCAGGACAGCGCGA
 ACCGCGACAGCTACAATAGTAGACGAAACGATTCACTTGGTGGTTTCAGCAGCTTAGAGA
 ATCGTTCTTTTGGCGTAGGCGCAGGCAACCGCTACTGGTTTGTATATCCACTAPA
 ATACGAACATCTGAGAAACCATGACATCATCTTAAACGCGGCGCGGCACTTAC
 GCGCACGCGCTTGGCACTCATGCGCAACCGCGCGCAAGACGCTTTGCGGTGGG
 GTCAACACCGTTTTCGCCCAAGCGCGGTATCGGAAACGCTTTTAAACGAAACGAC
 AAAATCGATATCTGCGCGCGTGGTGGCGGCTTAGCGGCTTTGCTTTTCAGACAGCC
 CCGTTCGCCCAACACGCTTATGCTGGATTAACTTAAATCAGGACAGCGGACGAGCG
 CGACAGATACGGATAGTACGGAACCGATTCACTTAGTGCTTCAGACCTTAGAGATCG
 TTTCTTTGAGTAGCGGAGGCAACCGCTACTGGTTTGTAAATCCACTATACAAAG
 GACCACTATAGCGGAGGCTTTCGCTGCGGCTTTCGCGGCTGCTGCGGCTGCGGCTG
 GCTGCTACCGCGCCCGGATCTCAACATCTCATCAACCGCGCGCTGCAATC
 ATTACCGCTCTCGCTGCGCGCGCGGGAAGCGCGCGGAGGCGCAGCTCAGGCGTTTGG
 TCGCTGCTTCAAGAAACCGCGCTTCGCGCTCGCGGACACGCGAGGCTTCGCAAGCGTG
 CAGGAGCGGTAACGACGCGCAATGGCGCGGAGTGTGTAACACGATTGGATAAA
 TTGGAATCATCGGAGATGACACACCTTGACGCGGATGTGTTACGCTTTCGAGCGG
 GCGGAATCTGATTAAAGACGGCTCAAGTGTCTGCTTATGCGCGAAGACGCTGATT
 GCGTGGCGGCTGCTGGCGGCTGTCGCGGCTGCGCGGCGGCGCGCGGCTGCGGCTG
 GCGACGCTTTCGCGGCTTACGCTTACGCTTTCGCTTTCGCTTTCGCGGCTGCGGCTGCG
 GACACGCGCTGATTATGACGCGGCTTTGGTTTGCCTCACAGCGCGCAAGGTATG
 GAATGGGCTTTGACGCGGCTGTTTGAATACGCGCTTTCCGCGACGCGCGATCGGCTC
 AATATGCAACGCGCTTCGCACTGCGGCTGATTCGCGAGCGCTGGCATTTGAAAGCGGA
 CCGCTGGAAGCAGCGCAACGCAAGCGCAAGCGACACGCCGACATCGGACACACCTTTGG
 CATTCGCGGATATTGAAAGCGCAGCAAAATGCGCTGTGAAGGCTTTCAGACGCGATC
 GCGGTCAAAACGCGCGGCGCTGAAACGCAACCGCGCATTCGCCGCGATCGCGCTT
 TGTGGAAAAATGAAAAACCGCGCGGAACCTTTCGCGCGCTGCTGCGATCGCAAC

Appendix A

-489-

AACGAAACACTCGGCTCCACGCTGTGACGGCTGCGCGCAAGCCCTAAATACGGCAATA
GAAGAAGCGTTTGTGTGTTTGAATACACTTAAATATACCTAAAGCGGTCCGTAAAGCG
TTGATCCGCAACGGTTTACCGCTTTCGCATCCCGAATCCAGCTCAACACCCCGGAA
TGACAAACCTGTCCGCGCAATTCGGACGGATGTTCAACACGGGCAACCTTATTTCCGT
CAGGACGGAAGCCCTCAGCTATGCTCGCGACCGCGATTTCGCGACAAATGAAAGTTT
CGCGACCCGAATCACAACATCGCGCGACAGGTAAATTTGTTATTTTTCATCGTATTAC
AAAAAATCGCATTTATTTTAAATTTTATGATAATTTATTTATGAGTAAATCA
AAACCACTCGGAGGCGCTCGCTTCCGACCATTAACACCATATTTCCCATCATCACT
TCGCACTTGGAGGCGATATACGACACACATTCCTTTTATTTATCAGATCACTCA
AACGAAACGCCAAACCAACCTTCGCGCTGGGTTTGGCGTTATCGTCCGGCTTTCGCG
CTATTTGCAACGACTGAGGTCAGTTTGGCGTATAGGCGAGTGATTTAGCAATTTGCGTC
CGCATCGGCGCATTCACGCGGTAAACAAAACGTCATACGCGACACGCTCAAGAATC
TGCTGCTGTGCGCTTCGCGAAAGTGTTCGACAATATGCGCCGCCGGAATCCGCGCGC
GGCAAGCGCGTTTTCGAGGCGTTGGGCGTTTTCGCGCGTTCGCGACACCCAACTCAA
TGCSCGCTCAAAAGGTATGGGTTGAAACCTTTCGGCAGACAGCTCGCGCGCTGATTTTC
CGCATCGCGGAAGCGGCGGACGAGCGCGGTAGGTTTTCGCGCGCTTTCGCGTTCGCG
GGTGTGTTTTCGACGCTCTGCTGCGAACCTCGACCATTTTCCGCAAACTTCCTTGAT
CGCGGTGATCATCTTCGCTCCATCGTAGGCTTGGCTGCGCGCGGCAATAGGCAATCCGCG
CGCGCGCTTTTCGCGTTTCGCGCTTCGCGCTTTTCGCGCGCGAGTTTTCGCGCGCGGCTT
TTCTTCACGCTGTTTTCCTCTTCAGTTTTCCTGTTCGCGCTCTTTTTCGCGCGCA
CTGCTCGCGCTGTTCTTCGCTCAGAACTGCGCGCTGTTGAGCAGTCGCGCTGTATCGGA
TTAGATGCGCGCTGAACGACGAGGACCGGATGCTGGAAATTTCCGACAAACCGGATATGT
TGGGCACTGTTGATGCTCGCAAACTTGTTCGCGCATTCGCGCTCGCGCTGATTCGCG
GCGCTTTCAGCTGCTAGTTGACATACCTGACGCGCATAGGCAATTAATACCTGATTCGCG
AACCAGAAAGGATAAATAGCACTTCATCTCTGATTTCTTAAATATGTCATATTCGCTG
CCTTCGCGCGCAATCATGTTCAACAAACCCGTAATGACGAGGTTTCGCGCAACGCGACG
GTATTTTCGCGCAAAATGACGGCGGAGGCGCTTCGCGCACTTTTCGCGCGCGCGCGCG
GTAATGATGACATCGACAGGCTTCGCGCGCGGTTTTCCTTTCGCGCGCGCGCGCATC
ATCATAAACGCGAGCGCAAAACCGCATCCATCATCGCGCTGGGCGAGCGCATTCGCGCTGTG
TTCGCGGAAGGATACGCTTCACCGCGCGCGCGGTTTCAGGTTGCGCGTTTCGACGGGACG
GATTTTCATCG
GTGAGCGCTCAACGTTACCGCGCGTGCAGCACTGACGACGACGAGGCTTCGCGCGT
AAGCGCGCGCTGCCAAGGCGTTGAACACGCGGTGGAACCGTGTCTTCGCGCGCGCGCG
TAGTGGTTCGCTATGCCAAAGCGCTGCGGGAAGACGCGACGCACTCGATTTTCGCGCG
AGCTGTTCTGCATCTGTGCTTTTGAATTCGCGCACACGCGCAACGACGATGCGG
ACATTTCCATCGCGCTTTTCGCGCGCATTCGCGCGCGCGCGCGCGCGCGCGCGCGCG
GCGTACCGAGCTGTGCGACAGCTGCGGTTTCACACGCGCGCATTTAGCGCGCGTGTG
TCGCGCTCAACG
TCGTCG
AAGTGCAGAAAGCGCTTGTGCGTCAACGCTTTAAGCGTGCCTTGAACACGTTTCGCG
TCGCGCAACGCAATACCGCTTTCGCGTGTGCGCGTTCGCGCGCTGATTTTCGCGCA
AAAGCGCGCAATCGTCCGCGCGCATATTGCAACACACCGCGTCCGATTCGCGCAACG
GTTTCGCGCGCGCGCGCGCGCATTCGCGATTCGCGCGCGCGCGCGCGCGCGCGCGCG
TGCACGGAAGCGGCTTTTCTACTTCTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
ACGCAACGCTTTTCGCGCGCTTCGCGCGCTTCATCAGAAATGCGCGCAATTTTCG
CGTCCGCAACCAATATTGGGCGCAATTAATCTGCATCCAAACCAAGCGGACGAG
CG
TCGCAACCG
CCCTCGCGCGCGCGCGCGCTTACTTTGAGGCTGGTCAAGCATATGTTTTCGCGCGCT
TCGCGCGCAATTCGCGCGCAATTCAGTATCTGCTGTTGCGAGCGCGCATTCGCTGCTC
AATGCGCTTGAACACCGCGCTTTTCGCGCGCTGCGCGCAACCTTCGCGCGCGCGCGCG
GCAATGAGCG
CGCGCGCTTCG
AGTTGCGGAGCGCTTTCG
AGCTTCAGAAACCGCTATTTCGCGCGCTTCGCGCGCGCGCGCGCGCGCGCGCGCGCG
TCGAGCTGCTGTCGAGAAACGGAATGGAACACCTGACGCGCGCGCGCGCGCGCGCGCG
CG
CGCGCTCAATCAACG
TCGAGCG
GCTACAGCG
ACG
TAAACACCG
TTTCGATTCAGAAATCAGGACAGACCAAGCGCTCAACCATCAAGCGCTCGGCAAAACCC
ATAAAGACAGAAACCCACATGATACAGAGCATATGGAAGGCGAAGCGCGCGCGCGCG
CGGACAGTACG
TGGCTGATGGGCGTGCAGCCACGACCGGATACAAATCCGCGCGCTTCGCACTGA
GCTACAGCG
ACGCTTAACCCG
ACG
CGATTCGCTGATTTGATTTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
CAAGCGAGTACG
CTCAGGGAAGATGCGTCAACATTTATTTTCAGACACCAAGATCAAAATATAGTTTTC
TGATTTGAAAAATATTTAAATCGCTGCGCAACCGCGCTATTTATTTTCAGGCGCAATTT
TTTCGCGCATCTGCTGTAACAAACCAACGGAATGCGATATTTTCAGCATTTTCCTACT
GTTTAAACAAAGGAGATATGTCGCGCAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
ACGCTTCAGCGCGTTCG

Appendix A

-490-

TGCTTGGCGGTGTTTGTGCTGGAGGCGACCTGCCAGCGCGTTTATGTCCGCAACAG
AAACTGCTTCGCTGCTGGCGGCACTAACTACTGTTCAGAGCTCCGCAATCAAGA
TGCAGAAAGCACTGCTGGCACTTCTGCTGACCGGCTGAATGCCGATTCCGAAGTGGACGT
ATTCTGGTTGAGCTACCGCTGCCGAGCACCTCGCAGCGCAGCGGTTTGGAACTGATT
TCGCGCGATGAAGCACTGGACGGCTTCATCCTTACAMTGTGCGCAGGCTGGCGCTCAAA
ATGCGCGCTGATGCGCGCTGTACGCCCAAGGGCGTGATGACGCTTTGGAAGCTTACGGC
ATTGATCCGAAGGCGAATAAGCGGTCTGTGCTGGCGGCTGAMTATGCTGGCGCGCG
CAGGCTTTGGAATCTGCTGCTGGCGGCGCAAGTGAACGGTCTGCCACAGCGGCACGAA
AATCTGACAGACGAGGTTCCGAGCGGATATTTGCTGCTGCGCTGAGCGATTCCGAGC
TTTGTAAGCGTGATGATCAACTTGGCGGCTGCTATTGATGTGGGATCAACCGT
TTGACGATGGCAGCTGTGCGGCGACGTGGAATTTGAACGCGCAAAAGAACGGGCGG
ATGATTACGCGCGTTCGCCGGCGGTGGCTGCATGACGATTGCCACATTGTAAGAAAC
ACCTCTGCACGGGCTTCACTGCACGATGCTTGAGCGGCTTGAAGATAAAATGCCGCT
GAAAGGCTTTCAGACGGCATTTTCCCTGTCCGTTTATTTGGGACGTTGACGACAAACG
TATCCGCGAGTATGTCGTAAGCGTGGCGGCTCGCTTTGACCATAAAGCAGGACAA
AGTTGGCAAGGATGACGACGAGTTGATGGCGCTTTCTCGCTGTGACCTACTGCAAGC
CGATAACGGCGGCTAATGCGACCAAAACCGCGCTGATTTCGGTATCCGAATCAAGCG
TGCAGCAAAACGGGATTCGCGCGCTGGTTTCAACACACGGATTCTCATGATTTTCT
TACCCAATGACTCGCGCTCCGGCTCATATAGTAGATTGGATGAGCGTGATCGCCAAAA
TGCTTGCAGCTCTACCCAAAAGGAATCATGCCAAAGCAGCCGAATATTTCTCGC
CGCTGCCAATCTCGCTTCTATTCTGATGCGGAAACGATCAGTCCGCAAGCGCACCA
ACAAACCTGCGGCAATTAACATTTGGTTCAGCAGCGCGCAAGTATCGCTCGCTGCAC
CGCAATTCGCACTCAATTTCTCGCGGTGGGTGCGGATGGCGGCTGGGTGTAGT
GTTTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
CACGACCGGAAGCGCAATCTTAAAGAAATCCGATAAAGAACTTTACATTTTCCCA
ATACGGCGTTAAACGCTTCTTTACGCGCATACATAATTTATTAACGATTTTCTCTCAA
GGACCAACACATGAAGTAGTTTCTCGCGCTGGCGGCTGATGTCGCTCGGTTTGA
TGCGAGGTATGAAGAAGAAACGACTTCGCCACATCTCTGAAGCGTTTCTTTACCA
CTTCCACGCTGCGCGCGCAGCCCTGATTTCGGTCAGCGGCTAAAACATTTAGATG
CAACAAATGTTGGCGAATTCGCCAAAATGACGATCATGTTACCTGCCAAGCGGGGAT
ACACAAATCGCTTCCGAGCGCTGCGGAGCGGCTGACGAGGCTAGTGAATGAGC
CGGCTCTCTGACGAGCGCGGATGATGATGATGATGATGATGATGATGATGATGATGAT
ATGCTCTGACACGCTTCAAAAACGGCTGAAAACTACATTTGGGCGCACTGCGACG
TTTCTCTGATGCTGATGGCTTTGGGCGGCTGTTCCAAACGATTTGGTGAATGGGCAA
CCAGATGACCTACCAAGCGCTTCCGGCGGGCGGGAACAACTCGCGAATCATCA
GGGTATGGCGGCTTACGCGCAAGTGGCGGAGCGCTTGGCATCTCGCGCGCTCGA
TCTCGACATGACGCGCAAGATCCGATTTCTGCGGACGCAAGCATTCGGAAGCGA
ACTTCGGGTACGCTTCCGCGCAGCTGATTCGCGGATTCAGCTGATTTGGCAAGC
GCGAGTCAAAAGCGCTGCGGAACGCAACCAAACTCTGCGCGCGAGC
ACAATCCACCGTATTTACGCGCTGTGCGTCCGCTCGCGGATGCGCTGCCACGCG
AAGCATCACTCTGAAGTTGAATAAGACCTGCTGCTTCCGAATCGAAGCATTTTGG
CAGGCGGAATGACTGGTGAAGTATCCCCAATGAAAAAGAGCCAGCATCCACGAGC
TGACTCTGCCAAGTTACCGCGACGCTGCTCGCTCTCGGACGATCCGCAAACTGG
GCATGGCGGGGAMTACATCAGCGGCTACCGTGGCGGACCACTTTTGGGGGCGCTG
CGAAGCGCTGCGCGGCTATTGCGATTCGCTTGGCGAGCTTGACGCGCTTTGGAAT
CGCATGCGGGAATAATGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCT
CCTGCGCTGACGCTGCGGATGAATAAATAAGAAATTCATTTCCGCGGATGCGGAGC
CCGACTTTATCGAAGCTGATGCGCTGCACGCTCAATGAACACGCGGATGCGGACTT
CCTGCTACGCGGAAATTCGATAAGCGAAGCTTCACGCGACGCAATTTCTGCAATCA
GCTTCAATCCCACTGCCAGCGCGGAGCATGCGCTTCAACTGCCGAATCGGGGAJAA
CCAACAGCGGGCGCTTCCAAATCCGCTGTTTTCGCGCCAACTGCGCGACGCGCG
CGTGTTCGGTACACCAATGCGCGAGCGCGGACGCGGAGCGGTTGGAAGCGTGT
CGCATGCGGGAATAATGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCTGCGCGGCT
TCCGTGTGAGATGTTGCTGTATCAGCAGCGCAAAAATGCGCGCGGCTGCGCGGCT
GTGCGCAACGCGGAGTATTTGCGCGGTATGCGTTCAATGCGCTTGAAGCCCTGCT
GCCATTCGCCATGCTTTGACGCGCGGAGCTTCGAGCATCTGACGACGCGGATAACTGA
TCGCCCAAGCTCTATCCACATCTGATCTCTCGCGCATCGGTATCAGCGAAGCGTCA
AATCTTCGAGTTCAAAACCTGTCATACGCGCGCGCTATTACGAGCTCCGGAAGGTA
AAGCGATGACGCGAAGCGGGTACGCTCAATATGCGCAGAGCGGTGAGCGAGGCAAAA
ATATTCAACACCGCGCGGAGCGCTTCAACATGATTTGGCGCAATGAGCGAGCAGC
GAGAGCAATGCTGCGCGCACACGCGCATATGCGGCTTGGCTGCTGCGCGGCGAGC
CAGCTTTGATCGCGCACACATAATATCGCCACACCAACATGGCGAGGATAAAGCGA
CGCAGCGCATGCGCGGCTATTTCTGTTTTCTGCGTCACATTCGAATATTATTCGCG
AAACCTTATTCGCGGATATGATCTACTCCAGCAGCGCGCGCATGTCAGAAATTT
TTCATCTTATAAGCTGTGCGGACAGCGCTTGGCAGCAAGTTCGCGGTAAACATCTG
ATAATGATGCGCGACCGGACATCTTTGCTATGACGCTGCGCTCGCTTGTCTCCACCAAT
GTATCGCGCGGATCGGATAAAGCTGCGGACATATCGTCCACGAGGCTTGTGAT
AGCTTGTCTATGCTGCGCACACGCGGATGCGGATGCGGATTTCTGCTGCTGCTT
CCAGTTTTTCAGGTGATGTTTGGTGGGATGTTCCAGTGCSCGACGACGAATGTC
GCGCGCTTGTTTTCTGCTGCTGAGCATAGGTAAGGATCAAGGAAGCGGATTT
CACCTCTGCGGCTTCTCGCGCGTGTGCGCTGGGCAATAAAGCGAGATAACGCTCAA
CCTGCCGAATCGCAACGCAACACCGCGCTTCCCTGTGAATTTCTAATGCCATAC
GATTTGACATTTGCGGGTTTGGCTTCTGCTACACGCGCACGCGCTGTACCGCGCT
CTGCGCGAATGCGCAATGACCGTGCATCCGCTGCGGATTTTTCATATGCGGACAAATC
AGCTCTCTGCGCTTGAATGTTCTGCGCAGCAAAATGTCGCGCGCATCGCGGATGA

Appendix A

-491-

TTCCGTA AAAACCTTTT TGTAGCGGAGCGGATGCCGTTGACGTTGGCGAAATGATTTT
AAGCATATAAATAAAGTTCTCACAATAAAAATGCCGCTGAAACAAAAGGGCAAAAT
GCGGACATTTACCTTTTTCGATGGATTTTAAACGGCGCCGCAAGTCGTGCCGCGGGCT
TGCTCTCCAAATGATTTTGTGTGCTTCGAGAAGGTGCGGGATGCGGTGCGGATTCGCGCC
AGTTTTTATCGCGCGCGCGCTGTTTCCGCGCGGCGCATCAAGCTTCGATTTCTCGTTGGS
AGAGACCCGCTCGAAGCGCGCGGCTTCGAGCGAACTCGTGCGATGCGGTTCGACGAGTC
CGATGATGCGCGCAAGGCTTTTCAGACGCGCTTCGACAGTGGCGGTCATTTGGTTTGTTCA
CTTCGCGGCAAGTCGAGCGCGCGCGCTTCACCGATCAAAATCATCATTTCA
TCGCAACAATAAGACGCGCGGTGATGTCATCGCGCGCTTCAGACGGCATCGATCGCGCG
GCGCGGATTTTCAAAGTCGTATACAAACGCGTCACGCGGCTTTTGATCATCAACAAAT
GCGCGTCGGAATAGTTCAACGGGCTGCGGTAGTGGCGCGCAGGATGAAGAAGCGACGA
CTTCGCGGATCGTATTTGTTTCAACACTTCGCGGATGTTGAAGAATTCGCCAGCGATTTGS
ACATCTTTTCGCGCTCCACGCGGATAAGCCGCTGTGCGACGATTTTGAAGCTGGCTGG
CGATGCTTTGCGCGTGGTGGTTTGGCGGTGATGATGACCGAGGATGCGCGCTGGCGG
CGAGCGTTTGAGCAATTTGCTTTGCTGGTGGGAAGTCGAATTCGCCGCGCGCGGT
GGATTCGAAGGTATGAGCATCTTTTCCTCATGCGCAGCATCTGATGTGCCAAT
CCGGAAGCGCGGTTCGCCACGCGGCTTTCCACGCGCGGTTGCGCTGCTTTGGCGGCTTTCC
ACAACACAAAATCAAGCGGATGCGGTTTGAACCGCTCCACTTCCAGCGGTTGCGCGCGAC
CGAGGTGCTCAACGATTTGCCCGACAAATGTCGTGAAGCGCAACTCGCGACGCGGT
AGTAACGTCGCCATTTTGGCGCAGGATATGCCCTGCGCTTTGAATCAGGGTTTCAATCA
TGGCAATCATTTGGGAATGTTTTCGTTGCCCTTGGGTCAATATCCGGAACGCAACGCG
CCAGAGCATCGGCATCTTTCGTGATGCTTGGATGAAGCGCGGAGTCAGTTTGGCGATGG
TCTCGCGGCTTTTTCGCGCGCAATTTTCGCGTATGCGGTGATTCGCTA
CATATGATGACGAGTATGCGCATCTGCCGCAACCAAGGGCAATCATGTCACACACACCA
TCACGCGCGCGCTGTCGCAATGGCAATGTAAGCGCTCATCGCGCAGCGATCATAC
GCACGTTTTCAGGTCGATGGGCGAAAGGTTCTTTTACGGGTTAGGTTGTTGAGA
TGTGGTCTAGCGGATATGATGATTAATCTTTGTGCTCGGATGATTAATTTCTGTTCTGTC
CTGTAGATACGCAAGGAACATTACGTAGTTGCGGATTTAATATGGCTGATATTTG
TGAAAATGGTCTTCGATACAGTTTGCAGAAATTTTGTGAATTTCTGATTAATTAATCT
TATCTTTTAATAGTTTGTAAATCGATGACGAGGATAAAGTTTACTCTTTATACAG
GCATTTCAATATGATGATGATTTTTCCTCATGCTTAAGCATCAAGCATCAAGGAATAT
CTTTTCTCCCTGTTTTCGCTTTAAATTTAGCAGAAACCAATCTCGCAATGAATCTC
GAATTTTCTCGGATTAATATGATGAGTGGTCAGAAAGTTTTCATCTATGATTGGGCAT
TTGGCTCAAGCCCAAGTCGGTATTAATCTTTAATTTGATAGCCAAAGTGTGCGATCAT
GAAGGGCTATATATCATACACTGAGCTGCCATATCGCTCATCTACACTTTGATTTATCC
CGTCTTTCCTCTCATTTGATTAATCAATTTAATACGTAAATACACATGTTCTGAAAAA
TTTATATGTTTCCATCTGCTATCTGATAGCTAAATCTTCAGAAAGCAAGG
TTAATCTCTTTTTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
CTCGATATATGTTTTCATCAACAATATCAATGTGTTCAAAATCATTAATATGTTCCCTT
GCTCCACTTTTGTTCATCATCGGAAGCAATCAAGGAGAAAACGTCAGGTAATCCG
TGTTATTTTCAAGCTTCAAAAGTTCCAAATCTCTCAATAAGAAATAAGAGTGTGTTGCA
TAAAACCTGAATACCTGTTGAGATAAGCAAAATAATACGGGACGCGACTTTGATCA
ATTTAGGATTCAGATTTAGCTTCGCGTTTCATCCAAAATAGTAGGCTTTTATCAGCAATG
CCCCGTGTGCGATTCAGCGGCGATCATGCAAAATTTCCGCAACCCCTGCTACCAAG
GTGCTTCATCTTACCGCGCGATTTGTGACGATAGATAAAGCTTCGTTTCTTAC
ATACTTTTCCGCGCATCGGCTCTCAATAGGTTGAGCAATCTCGCAATTTTGTTCCTC
TGCGGCTTTTGGCAAGCGGTTGATTTAATGTCATACAGGTATCAACCAAGTTTCTCGA
AAGGGATGCTTTGGTTTGTATCAAGAAGTGAACCAAGGGCAAGTGTAAATTAATCGC
GGCTGGGTAAAGATAGGTGTCGAGTATATCTATTTCTTTCAATCCGATGCTTTGAA
CATGACTTCGCGATGATGAGTTACTGGAAAAATCTAGACTACTATGCTAGTGCGGTTT
GAGTTTAAAGACGATTCGATACGCGCGCGGCTTCGAACGTTTGTCTCAACCAACCA
AGGAATCGGCAAGCAACATCTGATATTAAGCAACATTTTTCGAATCTGTT
TCAGTAATCTGTTTGGTGTAGAGTTACTTCAGCAGCTGTATAAAATTTTAAACA
AATGTGTTTGGCAACACCGTTTTCGCAACAAATACATTTGAGATTTTCAAGAAATCA
AAGTATCGTTTGAAGAAGCGTAAGTTTGTCAACTCAAGCGATGATATATGTTAG
ATGACATTTTAAATCCATTTCAATCTGCTTTAAATTTGTTCAACCAACCTTTGTAGA
ACAAATATGCTGTGAACCCCTTTCTTTTCACTCCGCTTAAACACGCGCTGTATCCGTT
TTAGGCTGCTGTGCGATAATTTCAACATTTGCGCGTCTTTCTCGGCTTCTGCTTTTCA
GCTTCGATAGCTTTTTCGCGTACGATTTGGTGTATTTGGTGTACCAATTTCTCGGTC
CTTGTGCTGGTGTAGGCGATTTTGGAGAGGGCGGGGCTTCATGTAATGGAA
CGGTGCTCGGTTTGGGCTGATCCAGCCGACGCTTCGAGGAAGCGGAGCTGCGGCT
TGGGCTCTCTGCTCAAGCATATCGAGTTTGTTCAGTACAGCGCAGCGCGGTTTGGCG
TAGAGTTCTCTGCTGATTTTGGGTAACTGTTGATGATGGCGAGTGTCTTCTCGCGGG
TTGACGCTTTCGTGGAAGGCGCCAAATCGCAGCTGCGACGACGCGCGGTACGTGAT
AAGTTGTTGAGGAACGATGGCGGAGCGCTGCGCTTCTCCGCGGCTTCAATCAGGCG
GGATGTTGCGCGCATCAGGAAGCTGTGTTTCTGCGATGCGTACCGCTCAAGTTTGA
TGGAGGTTGGTGTAGGCGATTTTGGAGATTTGGGCTTGGCGCGGCAATCGCGGAT
AGGCTGAGTTTGGCGGCTTGGCGATACCAATAGCCGACATCGGCGAGCTTTAAGT
TCGATTTGCGAGGAACGGGCTTCCCTTCTTCCGCGGGGTTGATTTGCGGGCGCGG
TTGACGAGCATTTGAAGTGGATTTTGGCAAGCGCTTTTGGCGCTTTTGGCGAGCGAG
ACGCGCTGCTCGTGAATAGTGAGTTCGCAACGCTTTCGCGGCTGTCGAGTTCGCGGTA
AGGTTGCGCAGCGGCAATTTGAGGACGATGTCGTGCGCACCTCGCGGCTAAGGTCGGA
CGTGGGCTTTTTCGCGCTTTTGGCTGTGATGCTTAAACGAAGCGATTCAGCAGAGG
GTGTTGGTGTGTTTTCGCGCAGCGCTTTCGCGCAGCGCTTTCGCGCGGCTGCGCGG
TCCGGGCGCGCGCGGTACGAATTTTTCGCGCGGCAACTGGTTCGCGCATACCGGCT

Appendix A

-492-

TTGGCTGCGGGAGTTCGATTTTTCGCTCGATGAATTCATTCAATGCTCTGTTTG
 TTGGTTTCAAAATGGGGGTTTCAGACGGATACCGCTGTGTTTGTATGCGCGCTCGAACAGAA
 TTTCGGACGCTATTATAAGGGAATAAGCGGATTTTCACACCGCGCTACCCAACTATTGT
 TCCGCCCATCTTAATGAATTTTAAAGCAATCTTCAGCCTGCAACAAATATATGTCCA
 CTCTTTGGTACATACGCGCTTTTTCGACATTTCGACCGAGGAAATGCTGCTCAAAAC
 GTACATATAATTAAGTTTTTATGAACACAAACCACTGCGGTTTACGACCGGTGACA
 CGCGCGCTGCATCTGCTGACGCTGCGCGCTTCATCGGCATTTCGACACCATGTGCTG
 TGGACGATTATTCAGGATCAAAATCAGACAGAGCGACAGCGCGGACAGTAC
 AATATGACCGCAAGCGAGGACAGCGATCTGTTTGTGTATCCATATACGAAGA
 CGCGGAATGGGTGGGACGCTGTCGCGCTGCACAAATCTTCGCTTTCTTACGCTGAC
 GGTGATTACATTGCGCATCGTGTGGCGGTTGCCAACCGGCGCAAGCTCGCGAAAGCGA
 CTCAGAGGCTGCGGCGGACGCGACGGCATTCTGTATCTGCTGCTGCTGCTCCGCT
 TATCGGCATGATCGCCCAATACGCGACGCGCGCGGCGCGTGAAGATGTTTCGGCGTTGA
 AOTGATGCAAGGCTGCGCGGAAAAATCGAGTGGATGCGAACTTGGGACACACGCTTCC
 ACGGCAATTTGGGCTGTGCTGTTTTCGCGCGCTCGCGACACTGCTGATGCTGTG
 CGCACCGTGTTCAGGTTAGAGATGTTCTGTGCGGATGACGGGTGCTGTGCTGATTTCC
 GTTCACATATGCTGCGCGCTGCTCGCGCATTTTGTGTTTTCAGACAGACGCCATC
 GTACAAAGCTTTCTTCCCTCGCGCGCTGATTTTGGACGACGCTCGCGCGCTGTTGGT
 CGGACGCTGCGCTGTAGGATTTTTCATGATGTTTTCGCGGACTCGGACAGCCCTCGTG
 TTTTTCATCTCGCGCGGATAAAGCACCAACCACTCTCGCGCGCGATGTTGTTGCGCTC
 GGCAGACAAATGCGGTGTAATTTCCCAACCGTGGCGGTTAAGAACGTTTCAACGTTT
 CGTAAATTCGCGCGCGCATTAATTCGGGTTGCGGAGACAGTTCCGCGCATATCGGCAG
 CTTGCGACCGATTCAGGTTAGAGCGCTTCAAGATGACATGAGGACCGCGCGCTCGCA
 TTTTGGCAACAGTTTCTCGCTTCTCCGATTTCCGCGGTACAAACCGTTGAATTAATA
 ATCGGATCTTCCACACCGCGCGCTCAAGCGCGCATACCGCGCTTGCGCCACGACG
 GGGACGACTTTAAACCGCGCTTCACGACGCGCGCGCGAGTTTTCGCCCGGTGCGA
 CACGCGCGCGCTACCGCATCGGAACCTGTGCCACAACTCGCGCTGAAGATAGCC
 GACATCTTGTGCGGCATCTGCGGTTGCTGTGTTGCGGCACACTGACGAGTTTGCCGCT
 AATCGGCTACGCGCTCAAAAGCTGTGCGGTACGCGCGCTGTTTCGCGACAGATGATGCT
 GCGTTTTCGACAGGACGCTGACGCGGATGCTGCGCAATTCGCAAGTTCGCGCGCTGCG
 GCGACAGCTATATATGCTTCCCTCGGACGCGCTGCGGAGGCTTTCGCAATGTTCTG
 AAACATAAGAAATCGCTTGAAAACAAACATTAATAAGGTTTAAACGATATGCGGCTA
 AACCAACAAACGCGGAGCGAGGAGGAGATGCGCGGCTTCTCTCTCAATCCGAGCG
 TGCACGCTGCTTCCGCGCACTGCGACTGCGCTACGCGGAAATGACCTGATGTCAAA
 AACGCGCGATGATCTTGTTGTTGAAGTAAATACGCAAAATGCGCAATTCGCGGCT
 GTGCGATACGACATTTCCCATTCGAATTTGAAGTTCGCAAGGATGAGGTAGAGTATTAT
 GTTCAACAGACAGCTGACAGGATGCTGCGCGCTCGATGCGGTTCATGAGGAG
 AGCGCGCGCGCTGACAGGATACGAATATACAGTTCGCGACGACGATGACGATACGA
 AGCGGTTTCCGCGCATTTTCCGCAAGACTTCGCGCAAGCAGGAAGCGCGGAAAGATT
 GGTGAGCGCGCGGTACAGGCTGCGGAGCTGATGCTGCAATGCTGATGATGACGCGAA
 AATCTGCGCTCGCGCAACGCGGCTTTCGCTGCGCACGCGCAACATTCGCCGCGGAAAT
 GACCGCGCTTTTGAAGAAAGACGATGGAACCTGCGCTGCTGCGCTGACAAACAGAC
 TTCGCGCTGACAGCATTCGGCAACGACTACGTTTTCGACCATGTTTACGACAAACAGGT
 CGCGCGGCTCGAATGCGAGCGATGATTGTCGCGCATTCGCTCGGCAATTCGCGCAATTC
 CAGCTCATGACAGCGCTAAGCGCGCAACGACGATGACGCGCTCATGCGCTTACGCTG
 CGCGCGCACGCGCGCAAACTGCGCGCATCTACCAAGACACGACGTTTGTCTACGCT
 TCCCATCTCGCGCACCGCGCTATTCAAGAAACACACCTCTGCTGATACGCGCATGTG
 CGACTGATGCTGACTGCTGCTGAGGAATGTAACCTTTTTCAGACGCTATGGCGCA
 AAGCAATGCGCTTGAAGCGCCAGAAAGGAACCGCGATGAAACCCAAACCGCACAC
 GCTCGCACCTGATTTCGCGGCTTTCAGCGCTTACGCGCTTACGCGCTGCTGACGCGAT
 AATGGAAGAGCGCGCGCTGCGCGCAATTCGCGCTGCGCGCGCGACGCGCGCGCA
 AAGCGAGACAGATGCTGCGCTGCTGATGGAAGACGCGCGCTTCTATGCTGCGA
 AAACACCAACCAAGCTTACAGCGCCCAATCTCGTGTGCGCTACAAACCGCACCT
 GCTGCTGCTGGACAGTGGCCACGAGGCGAAACAGTTCTGCTGCGGATGTTGACG
 TTCGGAACGCGCGCGGAGGCGGTGTAACATATTATTCGCTGCGCTTCTGCGCGCAC
 TGCGCGGACATCGCGCGGACACTTGAACACATCAAACTCGCGCGCACGCTGTTGG
 CATCGACCGCGCACAGCGCGCGCTCAAACTGTTACTACGCGCACTGTAACCTACG
 TATGCGCATCTTCACCCCGGAAGACAGCGCGCATTACCCAAAAGTCAGCACCCGCT
 CGCGCTCAAAAGTATCTCCCTTACCAAGTACCTACCAAGTACCTGACGCTGCGCAAG
 GCTTCAAGCGCTTTCGCGGCTTTCGCGCACCCCAAGACCAATCAAAATGGCAA
 AAAAACCGAACAAACCTTCAGCGTGACCCCAACCTCTGATACGCGCGCTTGTCTGA
 TCTGTATCGCGCGCATTCGCGCATTTGGCAATAGGCACTGTCAGCACATTCAACCGGAAG
 GCGCAAAACCTTCAAGCGCAACCGCAACACACCGACAGCGCGCGCAACCGGAATTC
 GGCTGCGAAACGCGCTAGTGGACAGATGCGCGCGCAACCGCAACACCGCGCGCT
 CATTCGCAACCGCACAGCGCGGAGCACAGACGAAGCGGACGGGATTCGCTGCGCTG
 CGGACCCCAAGAAAGCGGCTCAACCTGACCTGCGCACACCTTCAACCGGACGAGC
 AGCGGAGCGCGCGCACACAGTGAAGACACTGCAAGACATCAAGACATCCGCTGCGA
 CAACGCTCCCGCTTCGACACCCGGAAGAACACCCGAAACACGCGCGCGCAAG
 AAACGCCAAGAAACCATACCAACCGGACACCCGGAACACCGCGCGCAACCGC
 ATAAAGAAATCTTGACAACCTCTTTCGACCGGACGGACGGACACCGCAATCCAG
 GAAGCATTTGAACGGCATCATCATCAAAACCCCGAAGAAATCGAAAAATCGCGGAGC
 TGGGCAACTGCTGCGGAGGCGCTGACTACATCGGCAATTCGCTCAACCGCGGCTAA
 CCACCGCAAAATGACCAATCGTTTACGATACAGCTCAACGTCGAGCGGGTATC
 CGCGCGCTGCTGACCAACCGCGCTACCAAAATTCGCTGACCTGCTGCTGACG
 ACGTCACTGCGCGGCTATTCGACGACGAACCGCTCAAGAGGCGACATTAACAA

Appendix A

-493-

TCGACCTCACCATCAAAAAGACGGCTTCACGGGAGCTCAGCGGTATGTTTACGGTGC
 GCAAGCTCTCCCATCGCCACGCTCGATGACGATACCCACGGCTCATGATGGGG
 GCATAGAAGCGTCAACCGCGCGGACACTGGGGGAGCTAGGTTACCGCTGCCAACAGS
 TTGCGGAAACGGCGGCTATTTCGGTGGTACAGGAATTCGCGGACACGGCATGGGGGCG
 GTTTCACAGAGCGCGGCAAGCTGTGCACTACGGAAUAAAGGACAGGGCCCGTCTTAA
 AACCGGGTATGATTTTACCGCTGAACCGATGATCAACCAAGGCAACGCCACCTGGTA
 TCGTCAACGAGCGCTGGACGGTGGTACCAAAAGACGGTCCCTTCGCGCCAAATGGGAAC
 ACGAAGCTTTGGGACAGGCTGACAAATCGGCTGACAAATCGTCACTGACCGCGCGCTGGCA
 AACCTGAAACCGGCGATACCGCGCATAAAAAGAAACATGGCGTCTGAAGAAGCG
 CAGATCATATATAATAAAAAACAGCGTTTGACCGGCCACATACGAAACAAAGCAAA
 TCGGAATTCGCGCGCAACAGACAACCTTAAAGGAAGTTTATGAAATATTTGAAAT
 ATAGAAGATTTAAAGCCATCGTAAUAAAGACGGGCTGAACGACATGAGACTTCGSGGC
 AAGGTCGGCGTTACCGAGTCCGAGGATCGCGCTACGAUACCGGCGCAAAATGCCAA
 CCGCTACGGAGACTGCTCGCGCTGTGCATATCGAATGCATCGATTGGCGAAAGTCAAC
 AAAAAAGATAGAATATCGCGCGCTGTGAAUAAACCACTCCGCACTGTATGCCAG
 TGTCCAAACAGACCAATCGTAAUAAACAAAGATTAAACCGCACCTCGCGGTG
 CGSACAGTTTTCATTCGGAUAAACGCAAACTCGCGCTCTGAACACCGGACAGGTG
 CGGTATCCGCGCTGCGCGCGCTGCCATAACCGCGGACCGCGCGACCGCGCTTTTAC
 AACTTTATCAATTTCCTGTTTATTCGGGATACGCCGACATTAGAATGTCAACAGCT
 CGAAGCGGCAACCTCCATCTCAACAGGAATAAUATGAATCTTGACACCGCA
 ATCTCGTCTTCGCAATCGCGCTAGCAGTATGGCTCGCGCGCTGGCAGCGCAACCGC
 ACTGTTGCAAAAAAACCGTCAGCTAGCTTGGCAGCAGGTAAAAAGTCAAACTAAC
 TACGGTTCAACGACAGGCTGTGACGCTAGCTTCGCGCTGCGCGCGCGCGCGCGCGCG
 GTCAAATGGCTGTCAATTGGCAAACTCGACATATGGAATCTTACGCAAGAA
 GCGGTTATGTTTGGTACCGCGGTGATGGATGGCAATCTTACCGCAACAGCCATT
 ATGATTACGCGACTGACAAACAACTGCTCTCAAGACTGTTCCCGAGTTAATCAGGC
 AACAAAAACAGGCTTTTCAGAAATGAUACGCTGTTTTTTCAGCGTTCCATTATTCAC
 AAGAGGAAUAAACGATTACCTGCCCGTGTATCAAACTGCGCTGCGGATGAAGGC
 ATACCGCGCAGGAGCGGCGTCAACAGATATCGGGTACGCGTTTCTTGAAGATTCGCG
 CTAAATATCAATACTTTCCGGGATAGCAATATTCATATTCATCCGCTTTACGGGTTT
 GCTTCACTTTGAACCG
 CGCGCTCGGAGAGCATGGTGCATACGCGGATCATACGCGACACAGGCTGATGCGC
 CGCGCGACGCGCGCGCAATCGCGCGAGTGAGCGCTGCGCGTGGCGGACAAATCGGTAC
 CAACTGGAGACGCGCGCTTTTCGGAGCTTTTATGATTGTGACGCGTTCGCGCT
 CGGTGATGATTCAGTCTCGCGGTTTGGCTCGGGTAGTATTCAGCAGGAGCGCA
 AGCGTCTCTTGGTTTTAGCGAATTCGCGCAGAGTATTTGGTCAGCGCGAATATTCG
 CTCAGCGCGCGGACAGCATAGGATAGAGTTGTCATAGTATGAGCGCGCAACATCA
 TACGCGCGCTTTGTCAGAGAGTTGGAGGAGACTGCTGAAGCGCGACATAGAGT
 GCGGTTTCCCTCCACTTCTGCTGTGAGGTGCGGGACGACATCGCGCGCGCGCGCA
 CGSAGCGCTCGCGTACACTTTGGCGTTGTGTTTTCGCGCGTTTGGGTTTCTGTTC
 GGAAGAACAGCGCGCAGCGGGAAGCGCGCGTACGCTTTCGCTTCGGGATCGCGGAT
 TTTGACGAGGTCAGCGCGCGCGCGCGCGCGCGCGCGGAGGAGCGGTACGGAGGG
 TGAGTCGCCCTCGCGGTTCGCGGTATCGCGGTTTTCGACCGCGCGCGCGCTCGGAT
 CGGTTTGTATGTTTCGAGCTGCGGTTGAATCGGTTTTCGCGCTTCGCGCTTCGCAAT
 ATTTACCATTTGGCGGTACGCTGCAATCGCAATCGACATCGGCTTCGCGGATGAT
 TGGCGGCACTGGTGGTTTCGTCGCGCGCGCGCATCATCGCGGAGCCCATCGGA
 TTTTGTTCGATCGGTGGAATTTCCATATTTCAAAAGATTTTGGGTTTAAACGCGT
 CATACGTTTTGAGATAAGAACATCGTCTTATTATCACCACAGACATATCGCGCA
 CGGCTATTGATGAAGGATTTCTTCAACTTGCCTTCGCGGACACGCTGCCCAAACT
 GCGGCTGACATGAACCTGTCGGCAATATGAGGCGCGCGCGGATCGATATCCGAT
 TGTACCGCAACGCGCATAGTCAATTGACAGCGCGGATCGCGCTCGCGCGCTTCG
 TCCAGCGTTTGCAGTTCGCGCGACCATCTGACGCTTCGCGCGGATGATTCCG
 AGACGGTTTCGATCTTCGAGCAAAACCGCGCGCGCTGCATATCGCGCGCGCA
 CCAAGACAACGCTGTCGCTTCAGCATGGTTTACTTCAAAAAACAGCATCTTCGCG
 CTTATGTTATTTGCGGTACACAAACGCTGAACTGCAAAAGCAGGGAACCGCAAT
 GGTGTGTGTCGAGATGCTGTTCGGGTTGGAATGCGTGCACAGCATGGCTTCGACA
 CGGCTTCAGGCGTTGTAATATGTTATCGTAATGTAGTGATTTTTACGGGAATGCA
 AGTTTTCTGTCGCGCGCGCAAGTCGGAACCTGGAATGAUAAATAAAAATAGTTATTT
 ATCTATATATCAATTTTATAGATAAAATCAAAATGTTATATATATTAATTTT
 AAGATATTCAGATATTCGATAGTTTTTATGATGATGATGACAAAGATGCAATG
 GCGCAGAGCGCGCAGACAGTACAAATGATACGGAACCGATTACGTTGCTTCAGAC
 CTTAGAGAAATCGTCTCTTTGAGCTAAGCGGAGGCAAGCTGTACTGGTTTGTATATC
 CACTATAAATTTGAAATATCGCTCACACTGACGCGCATACCTCGCAACCTGCGCGT
 CAGGATTTCCGCTGTTTTCACCAATCTTCCTCCAGCATCTGTACGACCGGTATCGCG
 CACACTGCGCTCTTACGAGCATATGATACGCGCACGCGCGCTTTTTCGCGACCGCG
 CGGTTGATGCGACGTTTCGAGGCGAGGTTTCAGAAATATCCGTCGCGCATTCGCGAGG
 CAGACGCAAAACCGCATGCGGATTCAGAACTCCCACTGCAAAACCGCTTCGCGCAACCGT
 TTTATGATGACATCCAACTGTTGAGAGCAAGCGCGCGCAACGACAGCGCGGATAT
 TATCTTTTCGACATCTTTTTCACAAATTCGCGCTTCAGACGCAATTCGCGCGGAT
 ATGCGCTTCGAAGTAAUAAACAGATATCCGCTCTTCGACAGAAACGCTCAAGCA
 CGGCTGTCGCGCTGACCGGACGCTGTCCACCACTGGCAGCAAGCGCACCGCGCC

Appendix A

-494-

GGTTTTGGCTGCAAAACGGTATTTTCATCGCTGAAAGGCTCGCATCGTATAGCGCGCTGC
CTGTCCAAAGCGGTGCTGACAGCGCTGTCTATACCGACCTGCGACAGAGAGGTTTCAA
ATCTATGACAGCGCTTTTTTCGACCTGCAAACTGAGGAGACATGCACTTTGCGCTTACCGGCG
CTTGGCTCTCTTTGTTATCCATCGGCGAGGATACGGGCTAAACACATCTCGCGCGGAAGCG
CGGTTGCGATATAGGCGAGGTAGA GTTCCGCACCGGTTTTTGGCGCGCGCGACAAAGCC
GTCCAAACGCAATCTCTTGGCCATCGGCGCAATACACGCGGATTTTTCGCCCTTTTTTAAT
ATAACGTTTGACGAGTGGTTGATTTTATACGTTGCGCGCGCGCGACGTCGCCGCCAT
TTGGCGAAGCGCGCGCGCAATTTGCGCGCGAGGGGGGTTTTTCCTGTTTCTCTATTTC
AGAGGCGCTTTCAGGATCTGCGATGTTGCGATATACGATATAGCGTTTATTAATCTCAA
ACAGAGCGGACACAACTGTGGACCATCTGTCGCCATGCGGTATCTTTTGTGGCGGTTATGT
ATTTCGCGCGCGCGAGCTGAGTATTTGCGCGCGCTTGATTTATTTGGTTTTTGGGCGGTGC
TGCCACCCTGTTTACGCTTTTACCATTAACGTTGCGCGCGCGACACCACTGATGAGGC
AGCAGGAACAGCGCGGAATCCGAAACGACGCGCGCACACGGCAAAAGACAGCGGCACAA
AACCTCGAATCCCTTTTCAGACGGCATCTTATCGCTATAATCCGT/CAGTTTTCATTTTC
GGAAACACACATTTTAAAACTTATGCCCATTTTCGCCGAAGGGTGGTGACATATAGG
CGTGACCTATCAAGTTCTATGGCTATGAGTGAATTTGCTTACCTTTTCAAGAAATAAG
ATGTCATAAATTTTGTGCTGAGTATGAAAGCGGTTTTCACCTTCGCGGCAACAAAC
CGTTCTCGGAACCGAAATGGCACAATACATTTTCGGTGGCGGCAAAATCCATATC
GTCAACCTGGAAAAAACCTCGCGATGTTCCAGACGCGCAAGCGGTACGTGCTGTG
GTGGCGCAACAAAGTACAGTATTTGCTGAGGTACCAACGCGCAAGCCCGGACATCATC
CGCGAAGAGGCGACCCGCGCGGTATGCTTTGTCGATTACCGCTGGTTGGCGGGTATG
CTGACCACTACAAACCGTTAAGCAATCCATTAACGCGCTGGAGAAAAACCGCAGCG
TTGGAAATCTGCTCGAAGCGGTTTTCAGCAAAAAAGAAATTCAGAAATGCAACGGCAT
GTGAAAACTGCTGTTTGGCGGTTATCAAAACAAAGAAAGCGCTCGTGAAGCG
ATTTTCGTATTCGATACCGGCTACCAAAAGGTACTCTGTTGAAGCTGAAAAATTTGGCG
ATTCCTGTTATCGCGGTATGCGATACCAACAGCGCGCGCGGTGAAATACGTTATC
CCCCGCAAGCAGACTTCGCGCAAGGCAATCCGCGTGTACTGCGCGGACATCGTGAAGCA
GTTTGGAAAGGCAAAACCAAGCGCTCAAGAAACCTAGCGCGTCCCAAGAAAGCGCT
CGCGAGTACCTCGGCAACCGAAGAGGCGGTTATGCCCTTTTCTCAATATGCGGTCT
GAACTCCGTTGCGCGGACAGCATTTCCGGAATCGGAAAAATCCTTCGTTATTTCCAAA
AATCTAGAGATCAAAATGGCAAAATTTAGAAATATGGTTGGCGGCGGCGGCG
CTACCGGCTGGCGGAGTACAAAGGCTGTGCAAAAGCTGTGCGGCGAAGCAACTTCG
ACAAAGCCGAGAAATCTCGGTATCAAACTCGGTCGGAAGCGCGTAACCTGGCGCGGCG
GTACCGCTGCGGAAGCGGTATTGGCTTACGCGATCAACGGCAATGTCGCGCGATTGTCG
AAGTAACTGCAAAACGACTCTGTTGTAAGAGCGGGCTGTGTAATTTGCCAACT
TCGTTGGAAUAATCTGCGCGAGAAAAACCGGCTTCTGTGAAGAACTGAGCGAACTGG
TTGAAGCAGAACGAAAGCCATCTCGCAAAATTTGGCGCAATATGCTGTGCGTCTGCT
TCCAGTGATGACAGCTCCCAACCAAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
AAGCGCTTTGGTGTGACAAAGAAAGCTCTGGAAGAGTACGACGAJAJATCGGTATCGATA
TTGTTGGCGCTAAGCAACATGCTGAAGCGAAGCGAAGTATGATGCGCAAAACCTGTAA
AAGAACGCGACATCTACACGAGCAAGCAATCGCTTTCGCGCAACCTGCGACATCGCGG
CTAAATGTTTGAAGCGCGCATCTGTAATTTCTTGGCTGAATCACTCTGAACGCGCAAG
CATTCGTGATGAACCCCGATCAAACTGTTGCCAATCTCTAAAGAAAAACCGCATGAAG
TGATCAGCTTGTGACGCTACAAAGTAGGCGATGTTATGAAGAAAAACCGCTGATTACG
CAGCGAAATGCTTGGCGCTGTAAAGTTGAAGCACTATTAAGAAAAAGCACTCGGA
TTTCAAACGATACAGGCGCTTTTGTGGAJAJACGTTTACGTAACCTATTTAAGAC
GACGGAATATTGACAGCTGCTTAAACAAJAJAATTAATAACGACACACCCATCATTA
ATATTCCGACGTTTGGAAATTCAGACGCGCAACTCTCGACGACGACATCAAGAAAGCA
AGGTATCCATGACACAGCAAAATCAATACAAACGCGTATTAAGTGAJAJCTCTCGCGCAAT
CCCTGATGGGTTCCGATCGCTTGGCATCAATCAGATACCATCGTTCAAACTGTCGCGG
AATTTGCGGAAGTCGTTAAATGGGCGTGAAGTGGGATTTGTTGTCGCGCGGCGCAATA
TTTTCCGGGCGCTATTCGCGCGCAAGCAGCAGATGGATTCGCGCCACGCGCTACTCATGG
CTGATGTCGCAACGCTGCTAATAGCGGTGCTGCTCAAGACGCTATTAAGACTTAAAGCA
TCAAGCGCGGCTACATCCGCTGCTCTATGACGAACATGCTGAAGCTTACGCGCGCG
CCAAAGCCATCCAAATTTTGGAGAAAGGCAAGTGTGATTTTGGCGCGGTACCGGTA
ACCCGTTCTTACGACGACACTGCGCGCATTTGCGCGGTGGGAAATGAACCTGCGACG
TGATGCTCAAGCGCAACCGCTGACGCTGTGATACCGCGACCGCGAAJAJAGACCCGT
CGCGACGCGCTACGAACCAATTACTTTGACGAAGCTTGTGAJAJAACCCTCAAAATCA
TGGACGCGACGCTTTTGGCGCTTTCGCGCAAGCAGCACTCAATATTGCTGCTTCGCGA
CTGCAAGAGAGGCTGCTAATACGCTGCTATACGCGGAGGAGCGGAGCTGGTGT
ACTGCTGTTGACGATGTCGCGACATATATGTCGATATGGCTTTCAGACAGCATTT
ATTATATGGAATTTATGGATTAAATTAACAGCTGACGCGGTTGCTTCGCTTCGCG
TACTGTTTAAATTTAATCCACTATATTTACAAATTTGATACAAATTTGTTTTCATCAAA
GGAGAAJAJCTATGCAAGCAGCGCTGCTGATACCTATCTTTTCAAGTTTATTTTAT
CGCGCTCGGGGCACTGACAGGATTTCCATCGCATGGCGGAGGTAAAGCTTTTGGGTG
AACAAAGACTTGTGGCGCTTCTGCGCAGAGTGCCTTTAAGACATGGATTACAGGCAT
TACCGGCGAAJAJGCTGCTATGTAACATGCTGCTATGCGCGCAACAGTTTCAGGCATTT
TGACAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GCGTCCGTAACGATTACACTACAGCTTACGAACCAACCGCTGAJAJACATACAGCG
GGTTGACGGTTTAAACACTTCTTATCTACACTATTAAGCCCTGCACTCTCTGCGAC
CAATCAGAGGTTAGCGGAATTAAGACAGTCTGGGCTTAAATTTTGGCGGATGGGGAT
TATCGAAATGAACCTTGACGACTAACCGCGCGCACTGCTCTTTCTTCCACTTGGTA
CAGACCGTATTTTCTGCGCGGCAATAGCGTTTCTTCTCTGCAACGCGGATACAGAT
GTGTTTATAACATCGCGATTTCGGAACGATACGCAACAGAGCAATGGACCTATAC
AATGCGGAJAJCTGAAAGCCCAACAAACTGGAATTTTTCGATGACGAGCAJAJCT

Appendix A

-495-

AAAAAATGCTCATCAACCAAAAAACCAATGCGTTTGAAGCTGCCATAAAGAAAATTC
GCATTTGGAGTGTGCAAGAAGATTAATAAAGTATTAACCGGCGAGAGATTAATG
GTGATTTTCTCGATATCCGACCATACGGCAATCATACGGGTACTCCGCCATCCGTA
GAGGCTGATAACAGTCATGAGGGGGTATGGATACAGCGATGAAGTAGTGACGACAACATAGA
CAAGGACAACCTTGATTACACATACCAATAACCGCTTGCTACCAAGGAAAACAAATGAAT
TTGCCATTCTCAAAATTCATGATCGTGTTCGACGACGAATATCGTTGCTGCMAATCCCC
ATTAGTCATCGGACCGGTTGGATGCCGTTTGCAGCGATGATATCGAGGCAAAACACTAC
GAAACCGGGTGGTAATACCATCTGTTTGGTATGCTGCGCGCAGTGTAAAGAGCGGGGT
TACGCCCTCGCAGCAATTTGATGCACTGACCTGAGTCAGTCTGCTATTACACCGAA
CGGCAAGGTTTGTGATCGATTCGGTATGAAACCATTTTTCAGGGCACGACATGAA
GTACACAGTCCGTTGATCATCATGATTCAAAAGGACCTCTGATTTCAGCGCGCGGTGA
GACGCCGGTTTCTACTGTTTACCAGCTTCATCGAACAGGGTCGGAAATCCATCCGAGGAT
GGATATGACGGGCGCGAAGGACGCGATTATCCGCCGCCCGGAGGAGCAAGGGATATATAC
AGCTATTATGTCAAGGAACCTCAACAIAAACAAGACTAATATTGTCCCTCAAGCCCCA
TTTTACAGACCGTTGCTTAAAGAAAATGCGCGTGCCTGCTCTGGTTTTTCAGCGCGTGG
GATGAAGCAGGAAGACTGATATGGGAAAGCGACCCCAATAAAATGGTGGCTACCGCT
ATGGATGATTTGCGATCTTCAAGGTGCGCGGTAATCTTTTAATGGTTTTTCA
GGAATAGGATTTGGGCAATTACAGACAGTCAGTAAGCCCGCTCACAGATACAGCCCGG
CAGCAGACTCTACAGGTATTAAATGATTAGGAAAATTAAGTCGGAAAGCACAACTTGCT
CGCCGAGCGCTATTACAGGACAGTGCTTTGCGGTAAAGACCGGTATAACTCTGCCAAA
CAATGGGCTGATGCCATCCAAATAAACGACTACTGCCAAACTGCCCTTCCGACGA
GCGCGCCAGGTACGGTTTGGAGAGGTTAAAAAGTAGAATTAACCCGACTAAATGGGAT
TGGGTTAAAAATCCCGGTATAAAAAACCTGCTGCCCGCCTATGACAGACTTAGATGGG
GGATGGCGGGTGTGATGAGTATCAAAACCTCTTAATCTTACCAACAGTGCCTGAAGAA
AAACAAATTTTGAAGATTTAATATGAATCGATGAGTTCAGCAAGTTTGAATTCAGTGCAC
AAACACTTAACCTCCAATGCACCTGGTATTTAAGTCTGATAAAGTTAAAACTCGATAC
ACTAGTTTAGTGGAAAAATTAACAATTATAAAAGATTAACGAAAACCACTATTTAGAATC
CATGATTAATTCAGGAAACAGTATCTTGATTCAATGGTAATGCTTGAAGAACGGTAAAT
TTACAAGGTAGCAACAAAGATTTTACACAAACAACTCATATCAGCACTTAGAC
AAATGAATGAACACACCTGTTAATTTTCTGTTTAAAAAGCAATGTTCAATTTAGTGAAAT
ATACTGAATGGTTGATTTGGGCTATGAAAGATTCGAAAGTGAACAGTGTGAAGAAATTA
CGGAAATCAAAAGTGAATATCAAAATCTGGGATTTGGGGCTGTGTTCTGAATTA
CGGATTAATGGTTATTGCGACCAAGTGGGGGATTGGCTAATAGATAGGAAAGATTATT
TGGCTGTAAAGAAAAATTACAAAAATTCAGATTTTTCACAGACCGCTTAGTGAAGAAATA
TTATCTCATGTACTGAATATGCTATAAAGATGAAGAAACAGTAATTTTCAATTTTGAA
ACTAATCTAATTTTACGACCGTAGGTGGGATCTCGAATCCGATATTTTCCACACGCG
GCATTTGGGAAACGATAGATGCGTCAATTTTTCGTCAGTACAAATATCCGACCTACA
TCTCTGGCAGCAAACTTTACAGAATTTAATGAATTAGGAATTTAAGCTCGGAGAGAC
AAGCTTCTGGCGGAGTATGATACAGGACATCTTGGGCTAAAGGAGGACCAATTT
CCGCCAGACAAATGGGCTGATGCCCATCTGAAATATAACAGCAACAGGCCAAACTGCCCTTG
CCGTAGCAGAGCGCCCAACTGAGTTTGGGGCGTAAAAAAGTAGAAGTTAACCCGACCA
AATGGGATTTGGGTTAAAAATACCGGCTATAAAACACTGCTGTTCCGACATGCTACTTT
TGGATGGGGAATTGGCCGGTGGGAATAGCCGCTCAATCTATAAGCTCCACAGCAAG
CAGATGCTTCCACACAACCGTCTTTACAGCGCAACTAATTTGGAGACAAATTTAGTGTG
GGCATGCTATTACAGCATGTCTATAGCAACACAGAGATTTACGGGTTTAAATATCAATT
CACACGAGATTTTCTCGGCAATTTGAATATTTTGTAGCACTACACAAATATGAAG
AGTTACTCTCGGCTGAGACTCGGATTTGGGATGATAAAGAGGACAAATGTTATCCGAG
ATAAAAATCTCGACGATGGAGGTACGCAATTTAGACCAACATCAGGTAAAAAATATTATG
ATGATTTATAGGAAAAAGCCATGAATATACTATCCATAAATATCAAACTCAACTATT
CACTAACTCAGATGAAGTTTGTGTTTACGAGCTATCTTGAATGAGATATATCGCGGCG
TATGTGTAGATTCAAGAGAAATTGAATATGTATCTGGTGTAGAAAAATCAAGGTAGATA
ATTTACACACAGTTTGTGCGGATTTTAAAAAATGACACATTAACACCCAAATTTT
TGTCAAGGCTATGCAAGATTAACCAATTAAGTCTATGATGAGTATGAGGAGATGAAGAA
ATCATGGGTTTGGCGAGCGGTTGATGTGTTAATATGCTGATGGAGCACTACTAGAT
GGATAACACGCTATTATGGCAGCAGCTGAGACGAGGATAAAGTGGAGCGGAATGTTCA
TAATTTTATGACCGATTATCATCAAAAGAGAGATCAGGTTTAAGCATGTGGATTTGA
GCCTCAAACTTGGGAGAGACTATCCAGCTCAGAAATAGAAAGCAGAAACACAAAAGG
AGTTCGAGAGGGTGGAGCAAAAGATTCTCAACGGAATGTTTATGATGTAAAGGTACT
TAGGAATGATATAACAAATATGTTTGTTCGATCTCGAGCAATGCTCTCTTAAGGA
TTTAAATATCGCAGCAACTTTACAGATTAATTAATGAATAGGAATTTAAGTCCGGAGCA
CAATTTGCTGCAGGAGATTTGATGATGAGTCTTGAATTCGAGAGCAATATATCAGATGAAT
GACATTAATTTGAATTAACCTGGCATTCCAAACCTATTAACCTTTGCTAGAACAAGAG
TGGGCTGCCTGTTTGTATTTTCAGATAAATCAGTAAATCTAAAAATTAATGATGTTAAT
TTAGATTAATCAAAATATTACGAGACTTTTGAATTTTGTACTTGGTAAAGAGAGCT
GAAATGATGGTTGGTAGAACCTAGGTGGGATCTCGAATCCGACATTTTCAACAGC
GGCATTCGGAACCGATAGACGCTCAATATTTTTCGCGGATCAAAATATCCGACCTAC
ATCTCTCGCGACCAAACTTTACAGATTAATTAATGAATAGGAATTTAAGTCCGGAGCA
CAATTTGCTGCAGGAGATTTTACAGACAGCTGCTTTGGGTTAAAGACGAGCATTAAT
TCCCGCAGCAATGGGCTGAGGCCATCCGATATAACTGCACAGGCCAAACTGCCCTT
TCCGTACGAGAGCGCCCAACTGAGTTTGGGGCGTAAAAAAGTAAACCTTAACCCGACC
AATGGGATTTGGGTTAAAAATACCGGCTATAAAACACTGCTGCCGCCCTATGACAGACT
TTAGATGGGAGATGGCAGGTGGGAATAAGCCACCAAAACCAAGTACGACGACCAACCT
ACACACTCTGATGAACAAATATCGGCTTACTGCTCATATGTTAAACCTGATACATCTATT
TCTCCGACAGGAACAAATCAAGACCCGATCAGATGGAACAAAGTCCAAGTTTCTCATGAG
AAATCTTTAAATGGACATTTCAAGCTCATGGAAGAGATTTGGGCTATACCAATTTGA

-496-

ATCCAGCAAAAATATCGCTGATTTTGTATCAAAAAGCAAGCTGGGACAGATATATAGGT
 TATCAGACGGCAATACAGACGAGTGGCTATATACATATCAATCAATATATCTTTGGCCG
 TATCCAAAACATCCMAATCAAAACATCTTTGAAACCAATTAGGAGAGAGTATATAT
 GATGGAGAATTCAAAAGAGCAATGGGAATTCGGCGAGAAATGGGTCAGCTTCTGCTGT
 TTGGGCAAGCTCAAGTATATGAGCTATGATATATATGCTGCTTTCACAGGCAAAATACAGG
 TATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CCAGAAAGAGCTTCAACTCAAGTAATAAGCACTACAGAAAGATCAATGATGACGGAGTTC
 CATGGTTATGCTTCAAAATAAATTTACCTCTTAAATCACTGAGATGATTTATTTATGCAACC
 CAGTATGGTCAGAGTTTGGTTTGTAGGAAAATAAAATATGGTATTTTAAATCACTAT
 ACAATATTTATTTGGTGGCTTGCTTGTGATGGCTGCTCAATGTAGGAATAAAATCT
 CTACAGTCACTTAAATATATTAGTATATCAAAAGAAATCAAGTGAAGTGTGAATAGG
 TTTTACGGAGAGAGGGAATCTTGTTAGGAATATGAGTATAGAGAGAGGATATCCCTCT
 CCTTATCGCAATGATATTAATTAATTTATCTAATGAGAGAACTTGCTTTGGGG
 AGATATTTTATACAGAAAGAAATATTTTATTCACAACTATGATATGTGTTATGATG
 GGGAGATATTTATTAAGCATATGCAGAACCAATCATTTATTTCTCNAATAAAAT
 AGAGATGATGACAGTATGTTTGTGTGGTAATTTATCAACAAAGAGCAACAGATAT
 ATGATATGAACCACTCAGAGTGTGAAAATCTGGGTTTATCCACCTCACTACAGTGCC
 TATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 CGGAGCAAGCTTCTCTCGCCCGAGCCTATGCTGAGCAAGCTGCTTTCGGTAAACAAAG
 GCGATATATCCCGCAGCAAGTGGCTGATGCCATCGAATATACCTCGCAAGCCCA
 ACTGCCCTTCCGTGAGAGGCGCGAGTACGGTTGGCGTGGCTGGGTAAGAAAGTAGACT
 AACCGCTAATTAATGGGATGGGTAAATATGGCTGCGCATATAAAATCTCTGCCCGCCCT
 ATGACAGCTACAGCGGGGAATATGCTGGGGGAGCAACAACTCAATAAAATAGGACACAACT
 TTGCTTGAAAACTACAGCGCTGACATCACTAATTAATTAAGGACACATTTAGGATCACT
 ACTAAATAATGCTTTGGTACGAAGCTGGCTGGGTTCAGCTGCTTTCAAACTGAATACAA
 ATTGAATAGACTTACATTGAAGCACTCAGACGCTGGCGAGAAACAGATTATTTAGTTTAAG
 GATTTAGTATCTTTAGATGATGTAATGTTTTTTATGATGATTAAGTTTATTTTAT
 ATTTATTAATCACTCAATCAATCACTCAGAGTGATATGTCCAAATTTGCGGTAAACAT
 ATATATAAATTTGGAAGATCTCAGAGCCCTTGATATCTCAACAAAGGATTTGGTTATCACT
 TTATGAGAAATATGATGAATAATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TATGAG
 ATTTATATATAACAGGAATATAGTACGATATTAATGAACCTTTTGAATAAACTATCAT
 ATTTATGAGAAAGAAATCTGGTAAATAAATAATGATCGAATCGAGTATGGAAATATGAT
 AAAATAGCAGAGTACGCTGGAATAAATAAATATTTTGAAGAAATCTCTATCAGATAT
 CTAGAAATCAATAAATCAAGCAATCACTATAAATCAACAAAGAGGAGATGTTTAAAT
 ATGCTTCTCGGAGAGATGATTTTATTTATGAACAAAGCGTTGATTTTATTTGAACAA
 TCGCTGCGGAAATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 AGTATATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TCCACTACACTCGCTGCTGATATAGCAGAGTAGACCGGTGATATCATCAATATAGACAT
 TTATATAGCGGAGCTTTGGTAATAATAGCAAAACCTTATGCTGATGATTTTATAGAC
 AGAGGAATAGCTGATGATGACCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TATCCCAAGAGATAGCTGATGCTCGGTGATGATGAGATATGACCTATTAATCTACACAT
 TTATTAATGATGATGATTTATGATGATGCTTACAGATATAGCAAAAGCAATTAATCAGAT
 CGAATATTTCTCACAGCGGCTATTCGGAAGAGAGGATGCGTCAAAATATTTTCCGTCACT
 ACAAAATATCCGACGATCACTCTCGGCGAGCAACTTACAGGAGTATGATTTTGGGGA
 ATTTAATAGCAAGAGCAACTCTCTCGCGAGCGCACTATAGAGGACAGTATTTTAAAGGA
 TAAAGACGCGTATCAATTCGCGCAGCAAGATGGGCTGATGCTGAGTATCAATTAACCTCA
 CGGCGCAAACTGGCCCTTCGCTAGCAAGGCGCGAGTGCAGGCTTGGGAGAGTAAATAAG
 TAGACTATACCCGCAAGAAATAGAGTTAGGTTAAACATACGCTTATAAAACCCCTGAT
 TATGAG
 CTATCCAGCAACTACAGCGAGATGATTTGCTCAGACTGACAGGAACAGCTTTTAGCTGAT
 GTATGGTCCAGATGGGCTCATATAGAGCAAGGAAGCTGCTGATGGTGGAATATAGT
 AATTTGGTCAAGATGGGAGATATTTAGAACACCAAGAGCTGCCGCAAGCGATGCTGATC
 AGGGAATAATCTCGCAACAGAAAGATATAGGAGCAATCAATTTGCATAATATCATCATCT
 TCTTGATATTTCTGCAATAGAAAATATATTTTTCATATGCTTAGGCTTATTTGAATAT
 TTTTCTGGAATATCAAAATGAGCAATTAATTTGAATTTAAATGATCAAAATATTT
 CTATAGATATGAGGATCAACAGATATGATTTTCCCTGTTTATATCCCGNAATAGAGCT
 ATGTAATAATCAAAATTTTATGATGAAATATTTAGTGTAGGAGTATATATAAAATATCT
 TCTGAAAACTAATTTTATGACCTGGGAAAATAGTACGCTTTCCGACAGCGATAT
 GCAACTGATATTTTACCGGAGCGGGTAAATACAGGCTGCTCATATTTCTCGGACAGCACT
 CTACAGAGGATATTTTACCGGAGGAAATTAGCCGAGGACACACTTCTGCTCGGAGGAG
 TATGAG
 TCTGCGCACTCGGAATATACCAACAGCGCGAACTCCCTCTCGCTGAGAGAGAGCGGCG
 AGGTATGGCTTTGGAGAGGTAAAAATAGAACATAACCGCAAGCTAGGATGGGTTTGAAT
 AGATTAATGGGATATAAAATACCTTTCTCGGCACTATCAGACTAAGGCTTAGGTACAGGT
 AGGTGAATTTGCGGATACAGTACAGCGAGTGGGAACAGGCTAGCGGCAAAAGTAACTG
 GGTGGTAAATCTCGGATGATGACGAGCCOCTATGCTCCGAGTAGTGTGGGACATCTCAT
 AGAGCGAGTAAAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TATGAG
 ACTAAAGATTTTAACTGCTGATGTTTGGAAATTCACCAACCTCTCTATGAGCAACT
 AAGGCGCAATTTTACGATGAGGCGGCTGGTTATGCTGATATGATATGATGTTGGTGAAT

Appendix A

-497-

ACCAACACTTGAATACAACTTAGTAATAACCGAAAAATAAAATCAGATATGGAAATAC
 CGATAAATATTATTAAGCAAGCTTATCCCACTGGCTATTCTATTCTGGATA
 TGCAGCAATAAACTCTGATAAGTAGAAATTTATAGACGTTGGTTATAGAAATACGATAA
 AACCATAAAAATTTTATTGAAGATGTTATTCATTTTAGSGGTGGTGAATCGTATTT
 TATAGATACATTTTATGGATTAAATTTTCGGAAGATGCGATAGAGCTTTGCTTCATGAAAA
 TGGTGGTCAATCTTTTGTGAACCTCTTGATGAGTGTTATCGGGAATGGAATAGAAAGA
 AAGTTATTTCCTTTGAATAGAGAAATCTTTAAATACATATTTTATGTTTGGAGCAAAC
 ATTCAATGAATATTTGGTCTAGCTGCACGATTTCAATATTAGAGGGTAGGCTAAGAT
 TAGATAATAGCTTTTATGAGTCTTAGAGCACTCAAAATAAACTCAAGATTTGGT
 GGTGCTGTTATCAGCTGAAGGGAATTTGTTGATGGTAATTTCCGATTTGGTACGGCA
 ACAATGAAATCAATTTAAATAGCAATGAAATGAACCTAGAAATTTAGAAACATTTTA
 ATAAATTAAGTTTATTTATCATACAACTTAGTAATTAATTAATTTTATTTATGAAAT
 AAAAATTTATTTAAATAGTATCTCGAACGAAAAAGGATAGGGCTTTTTTTCACATATA
 GAAAACCATTAATTTCTAAGCAAAAAAACTTATTTTGGTTTAAATTTAAATATTTA
 CACTCAGGGAAGAAAGACCTTTGGTTCGTTTATGTCGTGTGAATAATCTAATTTAAAGAA
 TTGAGGGGTTTTTTTACGACCTCTCCCTGGTGAATGATAATTAATTAATTTT
 GAATTAATGATGATGAGCAACCAATAAATTTGGTGGGTAGCGCTGATGATGATTT
 CGCGGCATCATCAAGTCCGGTTAACTCTTAAATACAGGTAGCAGCAAGCAAGATTT
 ATTTACAAACCAAACTCATATCAGGAACCTAGACAAATGAATGACACAACTCTTAAT
 TTTCTGTTTAAAGCAATGTTTCAATAGTGAATATACTGAAATGATTGATTGGGCTTA
 TAAUAAACATTCAATCTGAACAGCTGTAGAAATACGGGAAATCAAAATTTGAAATATCA
 AAATCGTGGATTATTTAGAGACTTGTCTGAAATACCGCATATTTGGTATTTGGACCAAG
 TGAGGGGATTTGGCTAATAGATAGGAAGATATTTGGCTGTAAGAGAAATATCAAAA
 TCTGATTTTCTGAGAGCTCTAGTGAAGAAATTAATTAATCAATTTAGATAGCTAT
 AAAAAATGAAAAAACAGATAATTTTCATTTTGAAGACTAATCCAAATTTAGATAATGTG
 ATGCAGAGCAAGCAGCAATAGATGCGCAAACTGGGGAAGCAATTTCAATTTAGAATTT
 AAAAAACAATTTGAAATGAATAGCAACCAAAATTTGGTCTACCCAGTTTCTTAATAGGT
 AGTATTTATGATCTTAAGTGAAGAAATGATTAATCAAAATGAATTTAATTTATATCTTA
 GTAATATGCTTCTGAAAGGTTTGTGTATCTGTAAGAAATATGTCGTATCTCAAGGATA
 CATCTTTAAATCACTTATTTAGCAGCAATAATTTCACTGGTGGTTTGAAGATTTAGAA
 CAGAGGGGCGAAGTAGCTTTATATTTTATGAGCACTATCTCCGCTTAATTAATCTTA
 TCCATTCGATGATGATGAGCAAGCAAGCTTATTTTGGTGAATGATGATAGGAGAA
 ATCTTAGGTTTATTTGCTCAATTAATTTAGATAATAGAAAAACATGAATTTTAAATGATT
 TTGAAGATTGGCTGAATAGCAATTAAGGATACTTGGTAAGCAGCTATCTAATGAAAGA
 TAGGGCTGCCCTGGCAACTAGGATAAATCTCGATTTTACTAATTTTAAATGGAACA
 AGAACTTTTATTTCACTGTTTGTAAAAAGCAATTCGCACTCTTTAAATACAGCTCAAAA
 TCGGCTTTTGGGAATGCCGTTAAAGCTTAAGCTAAATGAGCTTTTGGTGAATCAAAAGTCT
 TCAAGTCCCTAATAGGTTTGTGCTGTCGGCAAGATGTGCTGATGATGATACAGGAA
 TGGTAATTTGGCTGTCGACCTGATCATAGCAAGCTATGAGCAAGCTGATGATTTATTTG
 TTTATACGCTTAGAGCACTTTCTCTCATAGGATAATTTCACTTAATTTGAATTTCTC
 CTAGTGATCTAGGCGAGCCCTCAATTAATAAGCAGCAACACTCTTTTGGCGATGTTCT
 CGGACTGTCAACGACTGTTCTCTCATGCCAATCTCATCAAGGTACGGATAACCCGCTC
 CGCCTTACCGTTTGGTCTGGGCAAGCAAAATCGGCAAGCCTCCAACCAATCCCATATC
 ATAAACAGCTGACCGGAAGCATGTTGGAGCGCTTTTATTAATCACTCATTTGTCAGAG
 TAAAGCTACTAATCAGGTACAAGCAGGGGTGCGAGCATATTTGGCTCAGAAATCTGGCA
 GCACTGTTTGGCTGTTTGGCGAAATAGCAGATAAAATTTCTAATAGCGACA
 ACAGGTAATCTGTTTATCAGCGGCTTCTGTCTTTGACCAACAACCAAGCATCGAT
 CAGGATGACAAACCTCCCGGGGCAACCTGCCCTTTACGGCTTAAGTGCACGGTAAA
 TAGTGACGGGCTGACTTAGTGGCAGCATACTGGGAGGTGAGTGTTTTGTGTATATTT
 TATTTTGGTATTCCTTAGAATACTGTAACCAACGCTACCGGAAGGCTCGAGGGCTT
 CGCGACAGCTTGTCTTGGTCTGCGCGGAAGGCTGCTGCGCAAGATTCGCGAAATCGT
 CTTCCGGATGTAATCACCACATCGGGGCTTGAACAGCTCTCGGCGCAGCTGTAAAT
 TATTGCGAGTGTCTCAAGAGCTGACCTTTCAGCAAGCTCGGCTGATGACAGCGG
 CGCTGAACAGCTCGGATATTTGTCGGAATTTGAGCGCGCGCGCTCGGTTTTCAGCG
 CTTTGAATGAATCGCGCTGTATCGCGGTGAGCATTTCTTCCAGATTTTGAATGTTGCG
 GCGTTTGGGCGAAACGGATGCCCATGCTTTGTGCTGCCGCTGCAATTTAAACCTGCG
 GTTTTCAGCGGATTTTTCATCAGGCGGCTCGCTGCGAACTGCTGCGGATAACGCCGA
 TGTGCGCGAGCATGCTGCAAGGCTGCGCATAGATTTTGTGCGCGCGCGCGGATGTAGT
 AGCAGCGGACGCGCACTATTTCTGCGCACAGATAAAGCGGAATCGCGGGTGTGCGC
 CTTTCAGAGCGGATGATGATGCTGTTTGGCAACCGTTTGGCAACCGTTTCACTTACCGG
 TGTGGCGGGAAGCATGGCTTTTTCAGCGCGGGTTTGTAGCGGCGCTCCATACGCT
 CTTTGAAGTTTTTGAAGCTGCTTCTACACCGCTGCCATTTGCGGCTACAGATTGACGA
 CTGCGGTATGAGGCGGTGTGCGCGCAACTGCAATCGGGCTGCTGTTTTCGGAATAATG
 CTGCAATCAGGCGAACAGAAATCAGGCTGCTGACGGCGCGCAGATTTTTTCCACATCC
 GCTCCCTGCGCTGCTGCTATAGCGCGCAACAGCACTTGCAGCATGATGTCGCGCTCC
 ATAAGGTTTCCCGCGCATTTTTCCTCGGGTGTGCTTTTCTCTTGATTCGATTCGATTT
 CATGGTTTTCCTTAATATGTCGTTTGGCAACCGTTTGGCAACCGTTTCACTTACCGATTT
 TCAAGCTCTGCTGCAAGCTGCTGCAAGAGCTGCGCAAGCTTCCGCGCGCGCTGCGAAA
 GGTGACGCTTCTCTTCTGCGCTTGTATGCCAACTAAATGTCGCGTTTGAAGCTGCTG
 CGTCTGAATGCGTCAACCGACGCTGGCGAGGCTGTACGAACGACGCGCGGATAGTTT
 GCTCGATGATGCTCATAGCGGCGTAAATGCGGATTTGCGGCTGCTCAACCACTACAGC
 TGGCGCTCGCGCTGCTGTTTGTGTGAAGCGCTCGCGTAATAAGTTTCCAATACCAAT
 CGGCGATCGGCTGCCATCAACAGGAAGCGGGGAGAAATAATGCTCGGAGATAGAAA
 ATCCGCGGATGTTGTTAAACGGAATGGCAACCAATTCGCGGCTTGGGAAATTCGCA
 TTTTACGGCTTGGCGGCTTTCGCGGAATCAAGCGGCTGCGCGGTTTCTGGGTTATG

-498-

[illegible]

-499-

[illegible]

Appendix A

-500-

GCATATCGGCAATACGTCCGGCGCCCTGCTCGGAAGGGCGGCATCAGGCTGTCCGGCAA
 AATGACACCGCAAAAGCACTTCGATTAAATATAGCTCAACTTCCTCCGCGGGA
 AGAGCTACTGCARACCGCTTCAAAGGCAGGTTGGACGGCAGCATCGGCATCGGTGGAC
 GACCGCCTCGCCCAAAATCTCTTGGCAACTCGGCATTCGGACGGCGGCGACGACGGCAG
 CCTCGGCATTCGCAAGCGACCCAGCAACGGCAGCGAACTGGTGCTCGACACCGCTCAA
 CATCGCGCGCGGGCAAGGCGAGCTGACCGCGCAAGGCTATCTCGAGCTGTTTAAAGACCG
 CCTGCTCAAGCTGGACATCCGTTCCCGCGCATTCGACCTTCGGGATCGATCGATCGCAACT
 TCCCGCAGGCAATATCAGAGCGCTCAATAACTTCGCGGACACTGCAAAAGAGAAAT
 CACAGGCAAAATCGGTTTACTCGGCACTTCAACGGCTCAAGCGGCTTTCCTCGGCAAGCG
 CGACATGTTTATGACGTTCCGCGACCTTCGCGCTCGCGCGCTGATTTCGCGCTGGGCG
 GAACATTAATTAAGAACAGACGGCGGCTTCGGCAAAAAGGCGACCGGCTTAACCTCAATAT
 CACCGCACCCGATTTATCCGCTTCGCTTTCGACTTCGCGGGCTTTTAAATGTACGCGG
 ACACCTTTCCGGTGATTGGACGGCGGCATCCGAACCTTTGAAACGACCTTTCCGCGCG
 GCGCGCAACTGACATCGGCAAGGCGGCAGACATCGTTTCGCTCGATTTCACGCTCAA
 AGGTTTCGCGCGACCAAGCGCGCGGATACGCGCGGCATCAAAAGGACAGCGCTTTCGCT
 GTCCGCGCGACGGGCTTGATGATTCGCGGACCTGATCTCGACGCGACCGGCTGGA
 GCACCGCATCGGCACACACGCGCGCATGAGCTGGATGGCAACGTTCAAATTCGATT
 GGACGCTTCAGGCGGCATCAACAGGGAACCTTACCGATGGAAAGGCGACATCGGCATCT
 CGACATCGGCGCGCATTAACCTCAAGCTCGAACCAGTATGACGCTCGAAGCGCGGTG
 GGACACGCTGGCGCAAGTGGGCAATTCGCGCAATGGCGCGACGCTCAACCTGCA
 ACATCTTCTTGGGATAAAAAACCGGCATATCGGCAAAAGGCGGCGCACCGGCTCGCA
 TATCGCGAGTTGCGCAATTTCTTCAACCGCGCTTCGAAACACATCGGTTTAAAGCG
 CGACTGGGATGTCCGATATGGGCAAGCGCGGCTGCTCAATACGAGCGCGAAG
 CGGCGATCGGTTTGGCGCGCGCGCAAGCTTGGGTTTGAACACATTTCTTCGCAAAAC
 GCGCTTTCAAACGACCGCATCGGAATCTGCTTACGCGCGCGCGCGCTTTCGGCGGAT
 TAACCGCGATTTCGGGCATCGCAACGCTTTCGGCGCATATGGCAAAATGACCGCTCGG
 CGCGCAGGATTACCGCTCCTCTCCGACTTGGCGCGATTGAAGCCTTTCTCGCGCGCGC
 CGCGCAAACTTACCGCGACGCTGAATGCGCGCGCGCAATCGCGGACGGGTAGGCTC
 TCGCTCGCTCAATGCGCGCGCTCAACGCGACGCACTTCGGGAAATCAAGCGCAACAT
 CACGCTGGGCGAAGCGCGCTTTTCGATCCGCGCGCTTTCGGCGCGAGGCTCAACCTGAC
 CTGTCGATTCGCTGCTGCGCAACTCTTACGCGCTCGGACGCTGCAAAAGCG
 CTGAATCGCGCGTAACTCTCGCGCGCACATCGCGCATCTGCAATTCGGCGCGACGAT
 CAACGCGGCAACATCTATTACCGCAACCAACCCAGGCATCATTTGGCAACGGCTC
 GCTGCGTTGCGATATCGCGGGCGAGGAATGGGTAAATCGACGCGTGAATTCGCGCACGA
 AGGACGCGCGGAATCTCCGGTACGGTCGGTATGGAAACAGCGGACCGGATGCGATG
 CGCGCGCGGTGTCGACAAATCCCATCTGCTCGCGCGCAACCGCGCGCTCGACGGTTTC
 CGGCAACACCGCTCGGCTATTCGCGCAAAAGGCAATTCGTTACCGGATGATTA
 AAGGATTCGCGGCTGCTGCAAAAGCTGCGCAACTCTTCGCGCGGACGATGT
 CTTGTTATAGCGGAATCAAAAAGAGGCGCGCGACGCTCCCCCTCAATTAACCT
 GACTTTAGACTCAATGACGCGATCGCTTCGCGCGTACGCGCGGACGTTACCATAGG
 CGGCAACCTGACCTGACCGCCCATCGGCGGGAAGCGTACGGGCGTGGCGACGGTCCG
 CGTCATCAAAGGCGGTTATAAGGCATACGGCGAGATTGGACATTAACAAAGGACGGT
 CTCCTTTGTCGCGCGCTCAACGATCCCACTCAACATCGCGCGGAACCGCGCTTC
 CCGCTCGGTGCGGCGCTGGAATAATTTGGCAGGCTCAACAGCGCGCGCTTACGCTGAC
 GCGCAACGACGCTACTGGAARAGACAGCTCTTTGGCTCATCTCAACGCGCGCG
 GAGCGGACGAGCGCGCAACTGCGCGCTTCTGCGACGCGAAGTGGCTGCTTCGCG
 GCAATCAACGACCGCATCGGCTGTTGGATGATTTGGGCTTACGCAACCGCAAGCGG
 CAACGCGCAACCGCGCACTCAACCCCGCGCAACGGTCTGACCTCGGCAACCACT
 GACCGGCAACTCTACATCGGCTACGAATACGACTCTCCAGCGCGAACAGTCCGTCAA
 ACTGATTTACCGGCTGACCGCGCATACAGGCGGTTGCCGATATCGGCGAGCGCTGCTC
 GGGCGCGGAGCTGACATACACCATAGTTTCGCGCGCTTCTCGGCTTCGGCAAAAAGA
 CTCGCGCGGAACCGCAAGCAAAATAGCGGCTTCGAGCGCGCGCGCAACCGGA
 CATTGAAACACGAGTTTCACGCTCGCGCGCGCGCGCTGCAAGGCAAGAT
 CGATATAGTAATTAACAAAATCAGGATAAGCGACCAACGCGACAGTACAAATAG
 TACGCAACCGATTACCTCGTGCTTGAACACTTAGAGAATCGTTCTTTTGAAGCAAGG
 CGAGCGAACGCGGTACCGGTTTGTGTAATCCGCTATATTCGCGCATCTTAAGATTTC
 AGGCATACACAGGTAATTAAGGAATGCCGAACGCTATCCGCGCACTTTCGCTATT
 CCGCGGAAGCGGGAATCTAGGACGACGGGTTAAGAAACCTACATCCGCTATTCGCG
 GAAGTGGGATCTAGAAATGAAAGCAACGCGGCTTATTCGGAATTAATGAAACCG
 GAGCTGAGTTCGCACTGAGCTGATGCTTCCGCGCAACCTGGAGTCCGAGCTTATAGC
 GGATTAACAAAATCAAGTAAGCGCAAGCGCGACAGTACAAATAGTACGGAAC
 GATTCACTCGGTGCTTGAACACTTAGAGAATCGTTCCTTTGAGCGAAGCGAGGCAAC
 GCGGTACCGGTTTTTGTAAATCCGCTATATTCGCGCATCTAAGATTACAGGRTACA
 CAGGTAATTAAGGAATGCCGGAACGCTATCCCGGCACTTTCGCTATTCGCGCAAA
 CGGGAAATCTAGAAATCGGACTTTCAGATAATCTTGAATATTGCTGTGTTCTAGGT
 CTAGATTTCGCGCTGCGGGGAATGAGCATCTAAGTTTCCGGAATTTCCACATAAC
 GAACCTGCGGCTGACACTGAGCTGATGCTTCCGCGCAACCTGGAGTCAAGTACGA
 GTTAAGAACACAGCGCATTTACGGAATTAATGAACTGAAACGACGACTAGATTCGCGCT
 GCGCGGAATGACGGCTGCAGTGGCGGCGGCTTTATAGCGGATTAACAAAATCAGG
 ACAGAGCGCGCAACGCGACAGATGACAAATAGTACGGAACGATTAACCTCGGTGCTTCA
 GCACCTTAGAAGATCGTTCTCTTGAAGTAAAGCGGCAACCGGCTATCGGTTTCTGTT
 AATCTCTAATGCGCGCTTCGCGCTGGCGGATATATAAGGAAGTGAATTTCCATCTAA
 GTAAAAACCGGCTTATCGATTAAGCGCTTAAAGAAAGGCTTAACCGCGCGGATTCG
 AACACTCTCTAATAATCAATCTGTTGAATTAAGAAATTAATAAATCCGCGCG
 AAAAACGGCAGCGCTGTTGACAAAGATGAAATATCGGTTAAAAACGATTTCAT

Appendix A

-501-

ACAGAAAAACACGGCTGGCGTCCGCAATCGTTTCAGACGGATTGAGAGAAAAATCTTTTAC
 GAGACCTTTATGTCCCGCATCCGCGCCCCACCGAGAAAAACATCTTTCGGCCACCC
 CTTCCAGCTTTCCACCTCTTCATATCGAATTTGGGAGCTGTTTTCATTTACGGAAT
 CGAGGCGATCTCGTGATTACCTCTACTACACCCCGACAAAGGCGGCTTGGCATAGA
 CAARAACCTCCGCGCGGCATTGTCCGGCGCATACAGCGGACGGTGTACTCTGCCACAT
 TTTGGGGGCGTGCTTGGCCACGAGTATGGGTCCGGAAGAAAAACCTCTCTCTCTCGGG
 CATCTCGTGATGTCCGGACACATCTCTTGGCGCGCGCCCGCGCTGTACCCCTTTT
 AATCGGGCTCATATCATCAACATGGGCGAGCGCGCTGGAATATACGGCGATCTTAT
 GTGGGGCATTTACCAAGAGGAGAAATGGGCGCGCGCATGCGGGATTTGTCAT
 TTTCTACATCCGCATCAACATCGCGGCTTCTTAGCGCGCGCTGTACGCGGCTACTGCA
 GGAAACATCCGGTTCCATTATGTTTGGCGCGCGCGCGGTGGTATGCGATTTCGGCTT
 GTGGCGTTATTCCTCGGGACGTAAAAACCTGCCACCCACCGCTCCCATCTCCGCTTC
 AAAAGGACGGGCAAACTGGCGCGCGCGTGGCGCATGCGCTCATGCGCGCACTTCCAAAC
 CGCATCAAAACCGGGCTTGTCAACCTCCAGCAATTTTCGCGGCATCTATATCTACCGT
 CATCTTTCGGCTATCGGCTATTTGCGCGCGCTGTGACCAACCGCGGCTCAGTTTCGGA
 CACAAACGCGCATCTCCGCTACATCCGCTTTCTGTACACATCTGTATGTTTCGGG
 CGTCTGTTTTCAGATTACACCGTGGCAACCGCTCATTTTCGAGAAACCGCTCAACCGCAC
 CATCGGTTCGTTACCGTCCCGCTCGCTTGGAAAGATTCTATGCAAAAGCTGTGGGTCAT
 CCGTGTTCGCGACTGATGGCGCCAATGTGGACAAAAATGGGGCGCAACACCCAAACAC
 CCGCTGAAATTTGCTATGCGGTATTTGTTACCGCGCGCTGCTGTTTTGGGATTCGTCGCC
 CTTTATTCCTCGCGTACGCGGATGCTATTGCGGTTTTCGCACTGATCTGCTCGGCAT
 CAGCATAGGCGAGCTGATGTTTCCCGGATTCGGCTGTCCATCTCCACAAATTCGCAAC
 GCGTTTTCGAAATCAAAATGTTGCGCTTAAATTCCTGCTTTCATAGGTTGCT
 TTTCCCGCGCTGTTGTTTGAAGAAAGCTATACGGCGGGCGCAAAACCTTCTATCG
 GCTGCTGTTCTACATCGGCGAGCGACAGCTTCTCTGCTGCTCTGCTGCCCAAAAT
 GAACAAATCTCTGAGGCGACACACTAAGTCCGCGCGCGATCGCGCTGACACCTTCAGA
 CGGCTATTTTCGCCATATGAAGAACCAACCGTTTCCACCGGACGAGACGGCTCCGCGCC
 AACCGGAAGCGAGCTCGCGATTGTCTTGAATTAAGCAAGGAAAGCGTGTGATTTC
 GTTGATAGAAACGTTTGGTTTCATTGGAAGAAAGGATTTTGTCCGCAATAATAGTG
 TCGCATACGAAATATAGTGGAATTAACAAAGAAAGGACAGGACGAGGCGAC
 ACAGTCAAAATAGGAGGAGCGGATCGCGCTGCTGCTGAGCACTTAGAGAAATCTCTCT
 CTTTGAAGTAAAGCGAGGCAACCGGTACCGGTTTGTGTAATCCCATATAAAACACAA
 CCTAAATAAAAATCGCGCTGAAACCATATTCAGGTTTCAGAGACATTTCCGTGTGGGA
 TGCACACCGGACGAGCGGTAAAGCGGGTTCTGCTCGGACAGTCAATTCCTTAGCCATAC
 CGTTACCGGTATGCTCAAGCAACCTACCGGAACGCTCGAGGGGACGCGTATTGGCTTCT
 GTTGGTCTGTGCTCGAATGGGTTTGGCTGCGCGATATTTGTACCAATAGCGGAGTGC
 GCGCTTACCGCAATTTACCGCTTACCTGTGCTGCAAGGACGACATCGCGTACCGGTC
 TTTCTGTTCCAGCACTGAGCGGTACGCGTTCGCGCTGTACCGGACGTTCTACCTG
 GAGCGCGGACTTTCTCCCGCTATGCTTACCGGATACGCGGACGCTGTGCGCGCTCC
 CGTGTGGCGGCGGATATAACAGGAAACACAAAAATCGCGTCTGAAGCGGTACAGGTTT
 CAGACGGCATACAGCCTAAACTACAGCGCGCTTTCAGGCTGGCTCGATGAAGCGCTCC
 AAGTGGCATTCAAATACGGCTTTGGTGTGGCGACTTCGTAGCTGTACGCAAGCTTTG
 ATACGTGAGGAATCCAAACATACGAACGATTTCGCTGCCCGAACCTACATCGGATTA
 CTTCTTCCAGGCGCTGTTCTTCTTATGCGGTTTGGCGATTTCGAATTCATAGGTTG
 GACTTCACATTTCTATGAGCGCTGTTTGTGCGTGTTCGACAGCTGTGTTTTCAGAT
 TGTACCACAATCCCGCTCGGCTCTGGGTAAAGCGGACGCGGATCGCTTTATATGATG
 TGTGACCCCGCGGACCGGATGCGGATAGGTGTGCTGCGCAAAATCGCGGGGTGTATT
 TCGATTTTCATGGAATCGTGATTTCAGGCTAAACGAACGAGGCGAAACGAGGTATGG
 CGTTGTTGTTTCGAGTCAACCGGAGATAGCGACCAACGCGGTGAACCGCGTTTCGGA
 CGACGCAAAACCATAGCGTATTCGCTTCCACACGGAATGGGCGGCTGTATGCTCGG
 ATTTCCGCGCTGCTCTTTCAGGAAGTTTCGATTTCGAAGACTTTCCGCTCGGCGTACGG
 CTGCAATACGCAAGCACTACCGCGCAATTCGCGCTTCCGCTACCGCGCGCGCGCG
 GCTATGCTGATAAAGCAGTTTTCGGGCTGGCGGCGCTGTTGAACATCGCTTGAACCTCC
 AAATCGCCCATCTGTTTTCGAGCGCGGCTACGCTCTCTCGACGCGGCGAAACCTTCT
 TCGTCTGTTTCTCCAGCGCTCATTTCAATACGATCGGCTGTCTGATGCGCGAGCGG
 ATGTTGTGCGAGCTCAACACGATGCTCTCGAGGATTTTCGCTCTTTTCGATTCTTGG
 GCGCGTTTCGGCTGCTCCAAAGTTTCGGGGTCTTCGGAAGACCGATTAACCTTCTCCAA
 CGGCTTTCTTACCTGATATCATGATTAACATCGGATGCTTTCGCTGGGCTTTCCAAA
 TCGTTCAGGGATTTGTAGCTGTTTATATTCGCGCTTCATGATGTTTTCGCTTTCT
 CAATTTTAGGGCTGATGCGGTAATTTTCTATGAGATAAGCGCTTC
 TGAAGAACGTTGAGAGCGCATAGCTAATACCGGATACGCGGCGAGTTGAGTTGATT
 TCAAGCAATCGGCGAGTGTGCTCTCTCAACCAACCGGATGGCGGTTTTTCTGATG
 AATCCGCGACTCGACCCAAATCAAAACCTGCGGTTTGTATACACATTCGCGCTGCC
 AACTCATTTTGCACGCGAGAACGCTCATACGTTTCAGCGCTGTGATCGATAGAGAAAG
 AAACCTTGGCTGATGTTTTCGCGCGAGCGCGGGAATATCGACGGGATCACGAAATTC
 GCGCGCTCGCGCGGCGGACATGACGCGGACGGCTGACAGAGCGGCTCAACATAT
 TATGCTGCGCGCATACGCGCTTGAAGCAATTCGCGGATGCGGAGTGGCGCGGACG
 GCTGCGCGGATTCCTGATTGAAGCGACGTTGAAACGAGCGGCTGCGGATTCGAAATCAGTAGCA
 ACGCGCGCAATTTGATGGGAAATGCTGTAATCTGCTGCGCGGCACTTTTCGGTGTAGT
 TAAATTTGAGCTTTTCGCGCTTTGATAAACCACTGTTGAGCAAGGTTTAAATCGACCAAA
 TCGGTTTTCGCTAAATTCGCGCTTCCAATTCGAGGCGCTGGGCGGACATACCGGATGCA
 AAAAGGCTCGCGACATCGAACCTCGCGATGTGCGCGGTAAACACCTTCACAGGAATACGG
 TTTCTTTCAAACCTTAATAATACCTACATGGGCAAACTCTTAGATGGCGCGGACGCG
 AGTCCCAACCGGACATCTGAGCGGCTGAGCGGCTGCAACCGCTTTCGCGGCTGCGGACGCTG
 TTTCTGCGCGCTGCGGCGGCGGCAAGCAACGCGGCGCGGCGGATTCGCAAGCGGCTGCTG

Appendix A

-502-

ATTTTGAAGACGTACCATA"TTTCATTCTTTATATATGCGACCCCGTCAAAAGAG
 GATATCTTTCTTAACACCCCGCTTTGACAGCGACGCAATGGGGGCTTTTAAGTCA
 TCATCAAAATTAATATTTCTTTTTCCTTTACGGAAATATATTTGAAGCATCT
 ATCCAGGCGGGGAATATCTCACACACCCGCGTTATCCAAATATCCGCGCTTTTTCCT
 TTTCTTTCCATCAAAATACTTTCTTTTATATATTCACTTACTGTTAAATCATTTGGCTGCGG
 GGTGTGAGTTTTCGCGACAAATTCGCTCTAATGGGATATCAACAGAAACCAACAGGAAC
 ACTTATGAATAATGGGAACACTTGGCAGAGGCGATCGCTATGCTGGTTTGGCTCTGTT
 TGGCGCATATGAAATTTTGGAAATCGGGTTTGGCAAAATGGACCGGGAGAGATTTGGTTTTC
 CGAAATCAACGATTTGCAATTTCCGCTGATCTGCGCGAGGACGCTTAATCTGGA
 TCTCGCATATGATGCGAGCTTTTGGTGGCCGATTTTGGTCTTTTGGGTTTGGACAGCGG
 TCTGTGCGCATTTGGGCGTATGGCTGCTTACCSCGCTGCTTGGGCTGGGTTACGCGCGG
 TTTGGGTTACAAATGTCTGCGACACCGGTTAATAAATGGCTTTAATTTATATCGTGGTAT
 AATCCCGCTGCTTTTCCAGGGTGGGGCGGATGGTGGTGATACGCTGCTGAAAAAAGC
 GTTTTGGCCCGGATGCGCTGTAACACAGATTTGATTCAGTGTGGGAATCTGACTTTAAAC
 ATTCCACCTTATCTGCTTAATCTGATATTTTGAAGAGGAATGACATGACAAARACAT
 TCTGCGCGCTTGTGCGGCTTATCTCCGCTTTTGGCGCGCTGACATGCTGCGAC
 CAACCGCGACGACGCAACGAGCGCTTCAATAATCGGCCATGCGCTTCTGCGCGCGCTC
 CAATCTCCGAGGTTTCTGCGCGCGCGCTGTTCTAAGCAGGCGAGGCGCAATGCGG
 CGAGGCGAAATGCGGTGCGACCGCTAAAAAAACCCACAAACACCAAGCATCTAAAGC
 CAAGGCCAAATCTGCGGAGGCAATGCGGCGAAGGCAATGCGGCTCTAAATATCCCA
 CCGCTTCAACCAAGCGCGCTTTTCAGTAAATGCGGCTTTTAAACGCAACAAAGA
 TTTTTTAACAGCATCATCTTTTGTGGCATCGGAACCGGTTAAAAATATGATTTACAG
 ACGGAGGTTTGGGATACCGCGCGACTTGGCGAGAGCTTTCTCTGCTTTCCGAAAGA
 CGCGATATGCTTTATGACGCGCGACGGAATTTGCTGAATAATGGGCGCTGGGCG
 CGAACAAGTTTGACCTTTGGCGGACGCTGCGCGTGGCTTGCACGGATTTGTCTATGT
 CGCTGGGCGGGCAGCAGCGCTGGATCTGATTTGATAGCGGCATCAAGAAATGATGC
 GCGGTTACGATTTGACGCTTTTCTCGGCCATTGTAGCTACTGCCACGCGCGGCTCATC
 TTTACGATTTGTGCGCTGCGCTTTACCGAGGAATGTGCTATCAGCGCGCGGCTA
 TCGCGGAGTGCAGACCGCTTTGGGCTGCGCGCATCGCGGTGGAAGAACGCTCTACTATC
 TGCATTTCCCGCTTGGCGAGATGAACGCGCTGAGTCTCAACGCGCTGCGACGTGAGG
 CGGATTCGGGCAATGATGACAAATTTGACAAATTTGCTGGGCTCAATCAAGGCT
 TCGTGTGCGCGAGGCTTTTGGAAATGTGGATGACAGAGCGCGCTGTGCTATATCCATA
 TTGCGGACATGAGCTGGAACGCGGGAATTTGTTGATTTGATACATGCGCGCGGAGTTT
 TGCGGACTGTTTGGGACTTGTCTGCACTTGCCTATGCAAGCTGCGACGATTTCGCGCA
 CCGTGTGGAAACGCGATTTTAATTTCCGCGCTTTTCCGAAGCTGGAAGCGAGTGCBCA
 AATTCGCGGATTTATCAACGCGTGCAGAGGAATTCGCGCGCTGACGCTGAAACCTTCC
 CGCAATACGACGCGCTTTGCCCAACGCTGCGGGCGAGCGGAGCGCGAGCGGCTGCG
 CGCGACGCGGCAACGCTGCTATCTGCGCTGATGACATGCTGAGGCTTTATG
 GAGCTGTTGATACCGCAACGCTGCAATCTTTGACCGAGGAATGGGCGCTTGAAGA
 GAAAGTTTGTGCGCGACGCGTGGCGCCAAACGCGCTTTTCAAGAAATCCCGGCGAG
 TTCTCCAAATATGCGCAAGCGTGGCGCTTTAGACGCGATTTTGGCATGATGATTT
 GAATATACCAATTTGTGGCAGAGTTTGTCAAAATTCGGATATTCGCGACTTCAATAT
 TCAATATGACAGCAATACACACCTTCCCTGCGGCGCTTATCCGGAATATCGATGATGAT
 GTTACCGATGATTTCGATGAGCGGAAACAGCTTGTAAATGCGAAACGCCGAGAT
 GATGTGATGACAAACATTTGACGCGCTTGTATGATGCTGCTGAGAAATATGGGGTTC
 TCGCGCTTTCTTTGACACCTTGGCGCAACCGCTTGTGCAATTTATGCTTGAGACAT
 AATTGGAAAAATTTTGTGTTGGGAATTTGTCAGGCTGGACTGAACAAAGGATTTATCTC
 CCTCTCTTGTGCGCATATCGGAATAATGGAAGCAATTTCCCGGGCGAAACCATCTA
 TCGCGATAAAATTAAGCTTTGTCGATACTATGCGCGTACCGGACTGACGATGCGGAA
 TTAATAGATGCGCTAACTGCTCTGCTATTTGGCGGCTTCAGTTGCGGACACCGCT
 GATT"GGTGAAGATTTAGTGCAGGAACATTTGCTGCTGCGCATACGCGCGGCGAGCT
 TTTCAAGGAGGCGCTTGTCAACAGTGGCTTTTTCGCTGATGGAACAAATAATTT
 CGCATATGCTGATTTGAGAGGCGAGAGATTTTACACATATGATGAGCGGCTA
 CTGATGAGCATTTGAAGGCACTTTTCCAAACGCGGCTTTGACGCGAGGAAGGCGAC
 CGCAACATTTGSAACATCTCGGAAAAATCAATTAACACACACGAAATCCAAAAAATCTG
 CAAGCTGCTATACAACTGCTGAAACACCGCAGGGTATTTACCTGAGGAAATA
 CTGGTTTTTATCCGAGAAATACACAAATGTGCGGTATCAGCAGCTTCACTACCCAC
 ACCATATGACCGCGCGCGGAATCTATTGGCGCAATGCTGCAAAATCAAAATGGTTCAAC
 CAGGAARCCCGAGGTAACTTTATGAATAATGCGCGATATGCGCTGCTTTCTTTCC
 AAGTACGAGGCGAGCTTTGCGGCGCGCGGAGAGATTTCCATATATCAATAAGAGCAGG
 TCTGTCCGATATTCGCTGAATATAAAGCAACATCTCAACCATCAAAAGATCATGGCAA
 AACAACCGAGCAATCAAAATAATGCGGCTGTAAAGGCTTCAGACGCGATAGCTGAC
 GGAACAAATCAACCGGATTTACTGTTATCTGCAAGTTCACCATATACACACTTCAAA
 CGACGATATTTCCCGCATCGGATGTATAATACGCAAAATACGAGGCTGATCAATTT
 GCGATATTTGCTTTATTTGGCTTATTTACAGACGCGGCTACCGCTCCGCGCACCGGT
 TCTTTCTGAATGAGCATTTCAATGATTAAGGAARCCCTAATGGCGGCATCTCTCTTAT
 CTTCGTTATTTCTGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 GGGAAATTTCCGCAACCTCAAAAGGCAATTTTATCATATATCAATAAGAGCAGG
 TGAGAAAAACGGAATCTGATGATTTCGAAGATAAAAGTTGTTACCAATCTAAAC
 AAGAACGTTTGGCGACACCGCGCATCAAGACTGCGATTGCGGAGTGGGAAATCCACT
 GCAACACAAACATACCGCTTTAAGTTCGCTACAGTTGTTGATCAAAAAACGCGAA
 TTTCCACAAAACTACACAGCGCTCTCCCTCCGCGCATGAGCATCTGTGCGGAGCAT
 TAACCGAAAAACAAATATGAACCGTATGCGGAAAAAACTCTGATGCACTTATACACA
 AACTTCCCAACAACTTATCATTAATAAGCTGTGAAATGCTGAATATGCACTGAGAT
 AGAGGCAATTTGCACTTCCCTGAAATATTCACAAAGGTATCCAGATTTATTTTAA

Appendix A

-503-

ACCGGCTTCATCCGAAATATAGTGATTAACAAAATCAGGACAAAGCGGACGAAGCGG
 AGACAGTACAAATAGTCGCGAAGCGAGCGACCGCTACTGTTTAAATTTAACTCCAC
 TATATAAATCTGCTATGCAATTTGCATATCCGAAGTAAATTTGTCCTATGATGCAAA
 ACTGCTTACCCCAATAATTTTGATAAAGCAATTCCTACATTCGCCCGCTCGTCCGCTAAC
 CAACACAGCGCGCGGATTCGCATTTGAAGTGCACACTTTCCTAACAGAAAAGGCCAGTAT
 CGGCTAGCATACGACTTTCTGCTGAAGAAAGATTGCATGAGCTACAGCAACTGACCCA
 GGGCGAAGCATACACCATCCAACTCTGCCGCCACTGCAACCGTACCGAAATCGCCAA
 ACAGCTGACCGCCCAAAAGACCATCAGCGCGGAAATCAGCGCGCACCGCACCCGAAGG
 GCGCAAACTACAGCGCGCAAAAGCGCGGCAAGCGGACACTATCAAAACAGGTAAAGG
 ACACAGCTATTAAGCGCGACCTGATTCAGCACTATGACAGCTATTCGCCGCA
 ACTCAGTCCGAGCAAGTATGCGCCTACCTGTGCAACACCAACAGATCAGCGTCCACCA
 CAGCACCAATTTACCGCTACCTTCGCGAAGCAAAAGCAAGCGCACAGCTGTGGCAACA
 TCTCAGAATATGCAGCAACCCCTACCGCAACCGCTACGGCAGCACATGGACAGAGGCCAA
 AGTACCCCAACCGGTTCGGCATAGAAAACCGACCCGCTATCGTGCACAGAAATCCGTAT
 CGGCGATTGGGAAGCGCACCACTTGTGCGGAAAGSACAGAAAAGCGCATTTTGGCACTT
 GGTGCAGCGGTACCGCTACACACTATCTGCAATTTGATAGCTCCAGAGCCGAAGCA
 CACTGCCCGGCTCTTACGGCATTAAGGCAACAATAAGCAAGGTGCACACATAC
 CATGTGATACGCAAAAGGATTTCACACACCAACAAATAACCAAGCATTTGAAGCGGA
 GACTTATTTTGTGCCCTTACCATTTCTGGGAGAAAGGCTGAATGAGAACCAAGCGG
 ACTCATCCGGCAACTTCCCAAAACAAACCGATTTCCTGAACATCAGTATCGGGAGAT
 ACGCAGGGTTCAAGATGAGTTGAACACCGACCAAGAAJAACTTTGGTACGAACGCC
 AAGTGCTTTTATCTTGAATCTGTTCCAAACCATACACATAGTGTTCGACTTGAATTC
 GAAGTCAAGAGCCTCTCAAAAATATTCGCTGTTTTCAGACCGATACACTATATAGTG
 ATTAACCAAAATATCAAGGCGCAAGCGTATGCAATATGATAGTACCGCAAGG
 CAGCAACCGCTACTGTTTAAATTTAATCCACTATCAAAATACAGAACTCAAGAAJAA
 TAACCTTCTGTATTAAGCACTCTCAAGCAATTCAGAAAATCAAGAAATTTCTGACCGTA
 AACAAACGTTTCCCTAAAAAACGATGCTCTCAAAAATATCGAACAAATAGAGACCTTTC
 CAAAAATAGTCTGTTACGAATAATTTGACGCAATAAATGCGCCAAAAAATTTCAATTGC
 CTAJAACTCTCTAATATTGACCAAAAGTAGAAAATCAGRAAAGTTTGCATTTTGA
 AATAGAGATTGAGCATAAAAATTTAATGAACTATGTGTTATTGCAAGGTCTCAAAATATCA
 TCTTCGCGCTTTTCATTTTATGATTAACCAACACCGGAAAATCTGTTTCAGAGT
 TTTGCCGCTTGTATTCGCGAGCGTAAAGGCAACCGCTCTCAAAATATAGG
 CAGCGCTTCGGCTCTACCTTTATCTCTGTGCAATACAACTATGAGAGAAATGCTA
 TCCGAAAATTTTTTCTGTGTATGCAAAAAAAGTTTTCATCTCAAGTACCCATATCTAA
 CGCAACGCTTTACCTGTTTCCCGCTCAATAACTGACTGCGGCGATTTCGCTGCGGAT
 CTCGCCAACCAATCCACATCCGCTCGAATTCGCTCTTGACTTCCTCTCTCGTCCGA
 CACGCGCTTTGCTGCGCGGCTGACGGAAGTCGAGACCAAAAGCGGTTTCGAAAGCTGA
 CACAGCGCGCGGCACTACATGGCGGCAACCGCTACGCCCACTTTCGCTCGCTGTTTC
 CGCGTAATCTGCTATGAGCAAGTATGAGTATATGAGAACTTTTACGAGGCGG
 CATCTTTTTCAGACATCTCTCAAGATTTTCAGACGGCAATTTGAAGTAAAGGTGCAAT
 TGTCAAAATGATTCCGATGACATCATACCTTTGTGTTCGGGTCTTTTTTCAAAATGC
 GCCAACTTACGGATGCTTTGGCTAATGTCGGAAGACACCCCAAGCCATACAGAATTCG
 GTCCGATTAAGCGCAACCAACCTTTTTTCAAAATAACGCTTAACCTACGTTCGCGTAT
 GCTCGCATTAATTCGGAATAACATAATATAAATACGCTGTAAGACACATATGATATA
 CTTGGCTTCAGACGGCATATCCCTTTCTAATTAACGGTATGATCGCTTATTCGGAATG
 CTTTACGGTATTTCGCTGCGCAAGTACTTTTTTCAGCGCCCATATGCTTACGT
 TTTGCTTTCGCGCATATATCCGCCAATCCCAACACACAACTACGCGCTCGCGGTGTGTC
 AATACGTCACTTTCTGTTTGGCGGTGTAACCTGCATGGAACAACTTTCGCGATTTCGGT
 GCAGCATCCAGACCGAAATAATATCGCTTTTTTTGGCGGTTTCGGGGTAAATTTTCGCC
 GCGAGTACCAAGCCGACGGCAAGTTTCGGCGCTCCATTTCGCGGTTCACGCTATCAGCTTTC
 CGCTTATTCGCGCTTCAACCAAACTCGATAAGTGCCTGCTACGTGCGCTCATAAATCGGC
 TGGGTTTCAGATCGCGCAACGCGAGTTAACTCAATCTGATAGGGTACCGCCCTTTGTA
 TCAATACCAAAAGCTGCTGCGCAAGAAACCGGTGAACCTTTCGCGCTCGCTTTTCAACCT
 GCTACGGTTCGCAAAATAATTTATTCATTCGCGCGCTTGTACACACAGCGCTTACACNA
 GCGCGAGGCTGTACGCCCATACCGCCCGTATTTCAGACCTTTGTCGCGCTTAAAGA
 CGCTTGTGCTCTTGGCTGGTTGCCATAGGCAGTACATTATTCGCATCAACCATGACGATA
 AAATCGCTCTTCTGCGCTTTCAGGAATCTTCAATTAACACACGCGCGCGGCAATTCGCC
 ATTTTGTGTTCAGCAGCATATCATTAATCGCAGCATGCGCTTCATCAAAATCATCGCC
 ACATACAGCGCTTTTACCTGCGCAAAACACTCGGCTTTGATACAGTATGCGCGCACTTTC
 ATATGACTTTTAAAGCAAACTTCAATCAAAAGGACTTTTATCCCTTCAGAAATTTT
 GTAGAAATCAAAAGGCGGCTGCTTATTCGACTGCAAACTTTCAGTATTCACATATGCA
 ATTAATAAAGGCAAGCAACCATGCAAAACCTTTATGATCAATTCAAAACCAATACCGC
 CAATGGTGTCTATTACTACCGCACTGGAAGAAGACATTCGCCGTTGGAJATATGCTGTC
 AC'TTAATTCGCGACATGACAAATTTCTATACCCAGAGTATCAGGCGTGTCTATCAGGCT
 ATTGAAGACGGGTAGCACTGGATTGTAGTACGGAAGCGGAATACAGCATATGAGTGAA
 GATGCGCTATGGAACGCGCTGGGCGAATTCATCAATTTGCGTGGTTATATTTCGCGTCC
 AGCGTCGATGCTTATAGCAAAATATACACAGAAGATTAGTACGCGAAGAGTCTGTGAA
 ATACCATCACAAGCAATTCAGCGAGCTTTTCTCAAAAGGCTTTTCGCTATTACTTC

Appendix A

-504-

AATCTGCGAGTATCTCTTCCAAAGCCGAACACAGCGCTCATAAATTACCAACGCAAACT
 GACGCTAACTGCGAATCCAACTTGCAAATCCGCGCTCAATATATCCCGCTGATATTTGTT
 GCGAATCGGTATCGCTTCAATCAAAACGGATATTCACATTTACGCAAAACAGTTTATTTC
 AATATCTTTTCAACTACTTCTGCAACTGCCAAGCGCTGAGCGCTGCGCTCTTTGTACGG
 ATGATACAGCCTGGAAACCTTAAACAAAGTACACCGAAATAGCGAGACGACCAACAA
 AAGCTCGGTAAATACCCACGGAATCAATCTGTCCCAAAATTTGGTCGCCAGCACTTCTGTGA
 TGGCTCTCATCATCGTTGGCAGAAATTCACACCATCCACCCAAACAGTACGATATA
 GCACACAGTGTGGTCTTATAGTGTCTTCCCTTTAACGGATCGAGGTATTTTTCACATAT
 AGCCAACTGTCGATGCTGATAGAGCAATAGCAATAGAGCTGCTTTATCTTTAAACT
 AGCTCTGCGTCAAGAGAGTAATGGTGTTAATAGCTGATATCACTGCTGAATGTTCTCAGAC
 GACCTCATTAATAACAGGTGCTGTGAAAGTTTCACGTGAACATCAATATTTTCAATACT
 TCTGTTAATTTGGAAACGATTTCAAATAAATGCCCAACCAATCCGTAATCGGCTACATTG
 AAAATCGGCGCATCAGCATCTTTATTTGATTGCAACAAATCACTTACTGTCTGCATACCG
 GCAACGTGTGAATTGCACTGAAATACGGATTGC AAAATAGAGTTGCGGCGCAACACT
 TTAACGGTGTGCGCATTTGACGATCGTTTGGCGCATATTCGGCATCACTGCTGTCGACGG
 GATACACGATTCGCGCACTTAAACATCGCTCAAGGCTTCAGACTCTTATTTAAATTT
 TCGCGCATACGCAAGCGAGACGCGGAAACATCACTTTGCGTGAATGCTTCAGGA
 CGATCGGAATGGGAAAGCTGACGGTTAAACAAACGATCAGGTTTGGGCAAGGGTTGCT
 TCAACATTAATTAACCTCAGCATATTAACACTTGGCGCGCACTCGGTCAAAAACCGTGCA
 CGGAAGGTGAGCAACCAATTTTCTGAATCAGCTTGCACGGTTTCAATGTCATTACCGCA
 TAAATGGGCGCACAAAGTCTGTGTATCCAACTTTGCGTCAATCAGAAATTTGGGGT
 AGCTCTTAATAGAGTGTCAAGCGGGGCAAAAGGTTTACCGAATGTGGTTGGCGTGTCT
 GCACATACGGTAATCGGCGCCCAATTTAAACACCGCGGAGCACTCTTCAAGCAATG
 CTTTCGGCATTAATGCTTCTGCAACCAAACTTTTTCACCGCGCTCACTGCTGCTG
 CGGAATTCATACGACGATGCGCGCTTTCGCGCAACCAATAATCGATTTGCCCAAT
 TTTGGCGGCGCGGTAACAGCATGCAAGGTGTAGGATCAACTGTGTTTGTGCTGTTG
 ACAATAATCAATACATCTTCTCAGCTCTCTCAATCACTTTGGCTGTTTTCATTT
 TTCACCAATTTTCGCAACGCTTGTCTACTTTAGCGTCTGCTGACGCGCTTAGTTGCG
 AAATTTCAACGTTTCTTCAAAGCGGTGAATGTGCGCAACCAATCTCAGGATCGAAGTT
 TTCAGAAAGTTTCTTTTGGCGCATATAATTTGGGATTTTCGAAAGCGCGGCTGCTT
 TACAGCAATCTGCGGACGAGCATCTCATGCGGAGGTTTCTCGGAGTCTGCTGCTG
 ATCGATTTCCGCGCAATCTGCACTTCTCGCTCTCAATTTGTACTTTGGACGCGAAGCT
 ACTTTGGCGCGCATTCAGCAAGCTGCGCAGCATTTGGCGCACTTATTGGCATCATCATC
 AATCGCTGTGTTGCCCAAAAGAAATTTGGGAGTTTCTTGTGCGCAACGGCTTTCAG
 CAACTTAGCAACGGCGAGAGACTCCAGTTTAGTATCGGTTTCAACATGAATGCGACGGTC
 GCGACCCATCGCCCAAGCTGTATCGCAAGTTTCTTCGATTTTTCACCCCAAGAAAC
 CTCAGCATTTGCTGTATCTTCGCGCTTCTTCAACGCGMAGCTTCTTCCAAGCAT
 TCTGTCAAGGATTTGCGCAATTTGATCTGCGATATTCAGTCCAGCACTTGGC
 TTTTACAGCACTTTTACGCTGTGATCTCACTACGCGCTTTACTGCGACAGTCTTTCAT
 TGAACCTCTCAAAAGAACGCTGCTTTCACATCGCAGCGAAACCAACTTCTCCCTA
 TAAACCAAACTCGTCTTCTTCAAAACGAATTCATTCAAAATCTTTCGGATATGCTT
 GCGGATTAATCATTTTAAAGCATTTACTCAGACTAGCGGATATACATTCCTGTATCTA
 ATAAATTTGAAATAATCATGCGGCAATATCAGTTTTAGACGACCTTAGCTCTTATCTG
 CTGCAACACAAATCATCAGCGCTTGAATAAACCAATCTGCGGTGGAATCTGCCCGATAT
 TGCCTCAATTTTTCGAATTTGGCAACCTGACAGGCTGTGTTAATCGGATCGGATCGG
 TATTAATGCGGACCGCAGGTTTTCAGAGCATTTGCGCAATAGCAGCAACCGGTATCA
 CGCGCAAAATCGACCGGATTTTCAGCAGATACGCTGCTGCAATAAATTTATTGTT
 CGCACAAATGACCAACGGCGACCATCTGCAATTTGTTGGCAGCGGTTTTCATCTT
 CATTTCCCAAGGCAAGGTAATATGATTTGCTGTTCTTCATTCAACTTTTCAGCAACG
 ACCGCGAGTTTTCAGACGCCATTAATCTACTGTCCGCACTGTCGCAATGCAAGCGCAT
 AATACGGCTGCGCTAAATTTTCAGACGGCTGCTTCAGGAACAGTCAAGCAAAATACCT
 CGCTTTCGGCATTAATACCAAAATCTTGGGCAACAGTTTCAGGTTTGGCCAAAGCG
 CATTTTTCCTGTGTCAGCGCATGTTTTCAGTACGCGCAAGGCAAGGCTTTCAGCGG
 GCGCATCTTTTATCAACCAACCAATCGGGAATTTGCGCATTTTCGCGAAGACCGCG
 TTTTATCAGACTTGTACTGTGCAATCGAAATCAAACTCTTCTGCGGCAAGCTGTGTT
 TCAGATGACCATTTCCCGCAAGTTTTCAGCGGCAAGAGATGTTTGGCGATTTCGCGGC
 ATTTTCATCAGATGGATTTTTTACAAACGGATGACGGCGCAATCTGCAAAATCCAG
 CCTCAGATGCGCAATCGAGTTTTCATCATCAGGACATTTGCGGCAAAATCTTGATTTGGG
 GCAAGTGTGAATTAATCGCCATATAGCAAGCGGCAAGCAAAATTTTCATATTTA
 GCGAGGGGTTTTCAGAGTCAATTCGCTTACATCTGATATTTAATATATATTTATTT
 CATCAGCGCTTTTAAAGATATTCGCGCAGCAGATCATCTTCTGCGCATGCTTGTGA
 TGGTTTCGCGCGCAATCCCGACAGACCGGCTTCACTGACGACAACTCCCAAGACCGG
 CTTTGATTAATCGCAAAACCGGTTGTTTAAACAAATAATCCGTAAGTAAACCCAGTAA
 TAAACGATATCGTATTTTACAAACGCGCATCAATCAGCTCTGTGCTAGTTTTCCT
 CAATATCTGGAACACGCGCGGTAAGGATGCAATTCAGGATCAACACTTTTCCAAACG
 AATAATCGATATCTTACGCAAGGACGCGCGTCAATATTCATGACGCGCGGATACGA
 CATCGCATGAGCATGAGTCAATTCGCTTCAGCGCATGAGCAATCTGCGTCAACATTC
 CATACGGGTTTATCCACAGCATCTTCTCATATGATGCGCATCTTGTCAATCAGG
 GCAATCTCGGCAAGCGGCTTGGCATTCACCTCTCGCAACATCAAACTCCCTGCTTCA
 CGGCGAGTTCTGTCAGGACAGTGGGCTAAACGTTTGTGTCATCAACATCAATGGAAA
 CAATCATCTCATATTTCAACGCGATTAAATGCGCTGATATTAACAAATTTACGCCCA
 AAGCGGTAAACCGGATTTGTGATAAGTAAGGTTTTCCAAAAACCTTATCCAACACT
 ATGACTTATACATTAACGCGCATCGGCAACGCGCGCTCGCTCAACAGAAATTTGGG
 ATCGCCGCGCAGCGCGGTTTGGTCTCCGCGCAAGAGCTGCAATGAGCTGAATTCGCA
 TTCACGCGACAGCGCTGCGCGGCTGGAAGATTTCGATTAATGTGGAAGATTATTTAT

Appendix A

-505-

TTTCACGGCGTATTGGATUAGGCTGGGGCCAAATGTCGCGCCGCCACGGCTCGCGCGC
AACAACAAATGGGGGCTTGGCAGCGCGCAGCGCCACCGCCCAACGACTTCGAGCTC
TGCGCTCTGAATCTCGAAGCAGTCGAAAGCGCAACCCGCTCGCGCTCTATTGCAACGGC
CGACAGCTCGTGACGGGCACACGATTGTGGACATCAACCTTATATCCCTTTTGTGCGA
TCCAAACCGGATCGGCATCCGGTTTGTGACGGCGCAACCGGTAGTGGAAAGTCGT
TGGCAGGAAACATCGCGCGGAAATTTATCTGCAACACCAAAUACCTTATCAGCCAA
AGCATTTGCCCAAGATCGCGCGCGCTATCAGAAATATCCGCAACGGATTATGTGATG
AATATTCCAGATTAGCAAGTCAGATTCAATTCAGAGAAACCGTCGACACGTTATGTAT
CTTTCCCGAACCTCTTAAATTCGAGCAACCTTGGCTGACAGATAGCATTGTGAC
AAACGGCTGTGTTGTTTTCGCAATAGCCCAATATCAAGTTATAGCGATTAAATTTAA
ATCAGGACAAGGCAAGAGCGCGACAGTCAAAATGATCGGCAAGGCGAGATAACGC
CGTACTGTTTAAATTTAATCCAATATCAGATAAACCAATGCCCTCTGAACGAATGTGT
TCAGACGGCAATTACTTATCCACAGGTTTGTTCAGACCTTAGATTTCGCTCGCAAGTAT
TCCAAAGTCGGGACAGGTTGGCAGGTGTAGGACATTTCGTTGTGCTACGACGCAACGGTT
TTCACCAATTTGTTGCCGCCACGGCTATACGCGGGGTTTGGCTCGCATCGAAGGACGG
CGCTATTGCGTGGCAGACCTCGAGAAAGGATTTGTATCTTCGTTTATGCGGTAGAT
TGCTGGCGGGCGGCTTTCATCGCGCGCTGATTCTCTTCCTTGGTATACGGCGCTTCGAG
ATGGAAACCAATTCGGTCAAGCGCGCTGGCAACAGGACGCGGTTGGCGGAGCGCTG
AGTTTGGCGTCAATTTCGGGGATAACGACCGATGGCGTTGCGCGCACCGGCTGTGTG
GGCAGCATGTTGAGCGCGCGGCGCTGGCGGCGCGCAATCGCCTTTCGGGTGCGGCGCG
TCAAGGGTGTTCGTCGCGGTGTAGCGGTGATGGTTCATCAGACCTTCGACTAGC
CGCAACTCTTTTTCAGGACTGCGGCCATCGGGCGAGCGGTTGGTGGTGCAGGAAGCG
CGCGAGATAACGGTTTTCGCGCCTTCGAAATTCGTTTTCGCTTTCGCTATACGCGGTT
TTCGCTCTGTGGTGGCGGGTGGGAATCGACACTTTCGCGCGCGCGCGCTGTATGTG
GCTTCGCGTTTGTGTTTATTTGGTAAAGACCGGTCATCTCAGAGTAGACATCCACACCC
AACTCCGCCCAAGGCAATCTTCGGGATTTCGATTGGCAAAATCTTGTATCTTCCTTTCGCG
TTTACCACGATGGCACTCGCTTTTAAATTCGCGAGTACTCTTGGAAACGGCTTGTGTGCTG
TCGTATTTGAAAGAGTGCAGCAGCATTTGCGCAGGGGTCAAGTGTGTCAGCGCGACACT
TCGATGTCTGGGCGCTTTTCAATTTGACGCAATCGGAGCGGGCGGATTCGGCGGAAACCG
TAACTCGCATTTAACTGCTCATGTATATATCTCAAGCTGGAAACGAATTTCAATACG
TCTGCTGTGTTTCGCTTAAAGATGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
TGTGATAGAGAAATTTACTGTTTGCACAGATTTCGAAACTTTTACCATCAATATTG
AATTTAAATTTTAAATGATGATTTTGTATGATTCGCAACCTGCTTGTGCTAAGTAGAA
TATCCAAATTTTCAATTACCTTTTGTCAAATAAGTTTGAAGTTTAAAGCTTGTGTATAA
GACAGATAAGCGTGTGATGTTTTTGTGCTTAAATATTTCTGTGGATAACTTTTGTGTTT
TCTAGTTGTCTCCACACCTTATTGACAGGCTTACGGTCACTGCTTTCGTCGGAAGAC
AAACAACTTTTCTCAATACCGTTTCTCAATGATAGAGCGAGCCCATGTCGAAATTCGG
GTTTTCGCAATCGGATTCGCAAACTCTCGCATCTGCGATGATGATTAATTTGACGCAACT
GTTTACCGTATGGCGATTTTTACGAGATGTTTTCGACGATCGGTAAGAGCGCGAA
ACTTTTGTATTTACCTCGACCCGCGCGGACAGGTGGATGGCGAGCGCGTCAAAATGGC
AGGCGTGCGGTTTTCACGCGCGCGCAATATCTGGCGCGCTGGTCAAGTTGGGCAAAAG
CGTGGCGATTTCGGAACAGGTCGCGGAAGTCGCGCGCGCGCAAGGCGCTGTGGAGCGAA
AGTCGTGCGCATCTGTAACGCCCGCGCACTGACCGATTTCGCAATGCTGGGAAGCAAGGA
AACCAACCGCATGTTTGGCTGTGCGCGCGCAAAATATCATGCTTTTGGCTGGGACATC
GTCGCAAGCGCGCAATTCGAAACCAAGCTGACACACTGTGATTAATTTGACGCGCAACT
GTCGCGCTGCGAGCGCGGGAATTTCTTGTGCTGACATTAAGAGCGAGCGCACTTGA
GACGCGATCGGGGTTTACGCGCTGAACCGGTGGCGATTTCGCGCGCGCGCGGSGAAAA
ACTGTCGACGGAATTTTCGCGTGCACGATTTCGCGCGCTTCGGTTTGGACGGCAAGA
ACACGCGCTTTCGATTTGCGCGCGCAGGTGCACTGTGAACATATATCGCTTCGACGCAAAA
CGTGATGCGGCAATTTTGAACGCGCTGTGCTCGAAGCGGACAGCAATATATCGGTAT
GGATGCGCGCGCGCGCGCAATCTCGAAATCAGCAACCCCTCTCGCGCAAAAAATCGC
GACCTGATGTCAGGCTGCACTTTTGGCTACCAATATGGGCAAGCGCTCTTGTGCTCT
TGTGCTGACCACTCTTAAAGATGCGCGCACTGCGCGCGCGCAAGAGCGCTGTC
CGCGCTTGAAGCGCAATACAAACCCCTCCAGTGCCTGCTGAAAGCAATTCGCGCAATCGA
ACCGATCGCGCGCGGATTTGCCCTGGGTAAACGCGCGCGCGCGGACTGCGCGCGCTGCG
CGACAGCGCTGTTTGGCCTGTGCGAAATCGAATTTGCGCGCGAGTGCAGAGCTCTTAGG
AACCCTCAAAACCGGTTTCCCGGAAACCTATCCACAGCGCAACAGCTCCCGCAAGCGAT
TTTGGCGGAACCTTCGCTGCTGCTGGTGAAGACGCAATGTCATCAACACGCTTTTCATCC
CGAATTCGACGATTTGCGCGGATTCGAAACCTGTCGCGCAATTTTGTGCTGATTTGGA
AGCAAGAAAGCTTCGCGCGCGGCTTTCGCGCGCGGATGCGCGCGGATGCGCGCGGATG
CGGCTTTTACATTAATTTGCGAAACCGCAAGCGCAAGCAAGCTCGCGGATTCACCAAG
CGCGCAACCCCTTAAACGCGCGGACGCTTCATCAGCGCGGAATGAAGCGCTTGAAGA
CAAAAGTGTGACTGCTCAAGAGCAAGCCCTGCGCTTAGAAAAACCACTTTCGACGGCGT
ATTGAAUAACTCTCAGACGGCATTCGCGCGCTCAUAAAGCGCGCAAGCGCGCGCGCG
GCTGGACGCTGTTGTCCACTTTTCGCGCTTGGCAAAAGAGCGGAACTTGTGCGCGCGGA
GTTTGCAGCATATCGGTTATCGCATTCGAAACCGCGCGCATTCGCTTTGTGCAAGCAGA
GTCAGCGCTCTTCGCGCGCGGATGACAGCGCGCTTTCGCGCGCGGATGCGCGCGGATG
CAGCTGGCGCGCAATTCGCGCGCGGAAATCCACTTACATGCGCGCTGCGCGCTGCGCTT
ATTGGCACACACGGCTGTTTGTGCTGCGCGGATGCGCGCAATCGGGCGCTCATGATCA
AATCTTACCGCGCATCGCGCATCGAGCGACTGCGCTCCCAACCGCTGCTCATTTTATGGT
CGAAATGACGGAUACCGGCTCATCTCGCATCAGCGCACCGCAACAGGCTTGTTTTAAAT
GGAAGAGTTCGCGCTGACTTTCACCTTTTGCAGCGCTGCGCGCTGCGCGCGCGGCTGCG
CGAACCTGCTGCAAAAAAACCAATCTTCAGCGCTGTTTGTATCCGCAATTTTCGAGGT
GACTACCTGCGGAAGCCACAGCGCGCGCTCAATGCACTTTTTCGCGCTGCGGAACA
GGGACAGGATCGTTTTCGCGCAACCTCAACGGGTGCGCGCGGTAAAGCTACGG

Appendix A

-506-

CATTGCGGTGGCCAACTGGCCGGCTGCCTGTACGGCATTGAAATCUGCCAAAAGCA
TTTGAACGGACTGGAAACCAAGCCGGCGAACCGTCCCCACTGGATATTTCACTAC
CATGCGGTCTGA AAAAGGAGATGAACCGAATCTGGGCAACTTTGTGGATAAGCAGAGGA
AAACACTTTGAAGGTATATTGGCAGCAGCCTTGGAAAACTCGATCCCGACAGCCTGAC
CCGCGCGAAGCATTTGTCAGAAGCTGTACCGCTCTGGAAGATTTGTGCAATCCGTATCTTA
ATTTCGGTTGTCCGAACAGCATCAACCATATGGAAAAATCTGTGGATAAACATTATCTG
ACAGGAAATTTCCAAACATAAAAAATGCCGTCCGAACAGCTCAGACGGCATCCGTCCATT
CGGCT

Appendix B

NMB Open Reading Frames

NMB0001 acetyltransferase, putative 491 3
 NMB0002 hypothetical protein 890 498
 NMB0003 glutamyl-tRNA synthetase 2305 914
 NMB0004 EpiH/GdmH-related protein 3154 2513
 NMB0005 arsenate reductase 3504 3154
 NMB0006 thioredoxin-related protein 3628 4304
 NMB0007 cell division ATP-binding protein FtsE 4304 4951
 NMB0008 cell division protein FtsX, putative 4951 5865
 NMB0009 BofA/YrbA family protein 5959 6204
 NMB0010 phosphoglycerate kinase 7485 6277
 NMB0011 UDP-N-acetylglucosamine 1-carboxyvinyltransferase 8819 7569
 NMB0012 conserved hypothetical protein 10310 9342
 NMB0013 conserved hypothetical protein 10792 10346
 NMB0014 3-deoxy-D-manno-octulosonic-acid transferase 12104 10836
 NMB0015 6-phosphogluconate dehydrogenase, decarboxylating 13615 12170
 NMB0016 hypothetical protein 13911 14144
 NMB0017 UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase 16137 15217
 NMB0018 pilin PilE 17734 17225
 NMB0019 pilS cassette 18932 18513
 NMB0020 pilS cassette 19646 19263
 NMB0021 pilS cassette 20297 19914
 NMB0022 pilS cassette 21157 20894
 NMB0023 pilS cassette 21882 21466
 NMB0024 pilS cassette 22474 22061
 NMB0025 large pilS cassette 23489 22821
 NMB0026 pilS cassette 23868 23594
 NMB0027 FKBP-type peptidyl-prolyl cis-trans isomerase 24226 23900
 NMB0028 hypothetical protein 24522 24307
 NMB0029 glycerate dehydrogenase 24644 25594
 NMB0030 methionyl-tRNA synthetase 27729 25675
 NMB0031 glucosamine--fructose-6-phosphate aminotransferase (isomerizing) 29683 27848
 NMB0032 hypothetical protein 29959 30483
 NMB0033 membrane-bound lytic murein transglycosylase A, putative 32229 30907
 NMB0034 conserved hypothetical protein 32440 33276
 NMB0035 conserved hypothetical protein 33276 34439
 NMB0036 conserved hypothetical protein 34706 35968
 NMB0037 phnA protein 36372 36046
 NMB0038 UDP-N-acetylglucosamine pyrophosphorylase 37817 36450
 NMB0039 hypothetical protein 38144 37875
 NMB0040 hydrolase, putative 38850 38140
 NMB0041 ABC transporter, periplasmic solute-binding protein 38909 39907
 NMB0042 conserved hypothetical protein 40004 40849
 NMB0043 conserved hypothetical protein 40878 41360
 NMB0044 peptide methionine sulfoxide reductase 43033 41468
 NMB0045 signal recognition particle protein 43179 44441
 NMB0046 hypothetical protein 44451 44672
 NMB0047 conserved hypothetical protein 45072 45353
 NMB0048 conserved hypothetical protein FRAMESHIFT 47969 48109
 NMB0049 pilC2 protein FRAMESHIFT 48116 51279
 NMB0050 conserved hypothetical protein 55173 53026
 NMB0051 twitching motility protein 56685 55462
 NMB0052 twitching motility protein PilT 57891 56851
 NMB0053 conserved hypothetical protein 58011 58694
 NMB0054 hypothetical protein 58697 59101
 NMB0055 pyrroline-5-carboxylate reductase 59153 59941

Appendix B

-2-

NMB0056 DnaK suppressor protein 60091 60504
 NMB0057 hypothetical protein 66347 66700
 NMB0058 hypothetical protein 66731 66885
 NMB0059 dnaJ protein 66972 68090
 NMB0060 conserved hypothetical protein 68289 70304
 NMB0061 dTDP-6-deoxy-L-lyxo-4-hexulose reductase FRAMESHIFT 70923 69924
 NMB0062 glucose-1-phosphate thymidyltransferase 71828 70965
 NMB0063 dTDP-D-glucose 4,6-dehydratase 72958 71894
 NMB0064 UDP-glucose 4-epimerase 74093 73077
 NMB0065 hypothetical protein 74476 75399
 NMB0066 rRNA adenine N-6-methyltransferase 75687 76418
 NMB0067 polysialic acid capsule biosynthesis protein SiaD, truncation 77283 76609
 NMB0068 polysialic acid capsule biosynthesis protein SiaC 78416 77370
 NMB0069 polysialic acid capsule biosynthesis protein SiaB 79103 78420
 NMB0070 polysialic acid capsule biosynthesis protein synX 80240 79110
 NMB0071 capsule polysaccharide export outer membrane protein CtrA 80375 81547
 NMB0072 capsule polysaccharide export inner-membrane protein CtrB 81565 82725
 NMB0073 capsule polysaccharide export inner-membrane protein CtrC 82728 83522
 NMB0074 capsule polysaccharide export ATP-binding protein CtrD 83522 84169
 NMB0075 transcriptional accessory protein Tex, putative 84236 86506
 NMB0076 methyltransferase HphM(C), FRAMESHIFT 86540 87539
 NMB0077 site-specific DNA methylase, truncation 87529 87876
 NMB0078 UDP-glucose 4-epimerase, truncation 87922 88575
 NMB0079 dTDP-D-glucose 4,6-dehydratase 88694 89758
 NMB0080 glucose-1-phosphate thymidyltransferase 89824 90687
 NMB0081 dTDP-4-keto-6-deoxy-D-glucose-3,6-epimerase 90729 91280
 NMB0082 capsule polysaccharide modification protein LipA 91308 93419
 NMB0083 capsule polysaccharide modification protein LipB 93559 94815
 NMB0084 conserved hypothetical protein FRAMESHIFT 95185 96587
 NMB0085 sodium/glutamate symporter 96808 98019
 NMB0086 hypothetical protein 98121 99134
 NMB0087 hypothetical protein 99148 99342
 NMB0088 outer membrane protein P1, putative 101170 99773
 NMB0089 pyruvate kinase II 102957 101488
 NMB0090 IS1016 family transposase, putative FRAMESHIFT 103217 103857
 NMB0091 hypothetical protein 104399 104632
 NMB0092 hypothetical protein 104629 104853
 NMB0093 hypothetical protein 104856 104939
 NMB0094 hypothetical protein 105228 105413
 NMB0095 hypothetical protein 105423 105572
 NMB0096 hypothetical protein 105676 105843
 NMB0097 secretion protein, putative POINT MUTATION 105860 107344
 NMB0098 ABC transporter, ATP-binding protein FRAMESHIFT 107313 109396
 NMB0099 hypothetical protein 109624 109484
 NMB0100 hypothetical protein 109770 109627
 NMB0101 IS1016 family transposase, putative FRAMESHIFT 109850 110489
 NMB0102 hypothetical protein 110608 111123
 NMB0103 bacteriocin resistance protein, putative 111896 111405
 NMB0104 hypothetical protein 113073 112402
 NMB0105 PhnO-related protein 114197 113358
 NMB0106 aspartate carbamoyltransferase, catalytic subunit 114436 115353
 NMB0107 aspartate carbamoyltransferase, regulatory subunit 115366 115821
 NMB0108 hypothetical protein 115889 116551
 NMB0109 conserved hypothetical protein 117948 116620
 NMB0110 polypeptide deformylase 118018 118518
 NMB0111 methionyl-tRNA formyltransferase 118608 119531
 NMB0112 16S RNA methyltransferase 119613 120869
 NMB0113 hypothetical protein 120892 121431
 NMB0114 nitrogen regulation protein NtrY, putative 121434 123551
 NMB0115 nitrogen assimilation regulatory protein NtrX 123547 124821

Appendix B

-3-

NMB0116 DNA processing chain A 124915 126105
 NMB0117 smg protein, putative 126134 126592
 NMB0118 DNA topoisomerase I 126667 128970
 NMB0119 hypothetical protein 129741 129049
 NMB0120 hypothetical protein 130312 129764
 NMB0121 conserved hypothetical protein 130431 130805
 NMB0122 conserved hypothetical protein 130897 131463
 NMB0123 ferredoxin, 4Fe-4S bacterial type 131589 131837
 NMB0124 translation elongation factor Tu 132257 133438
 NMB0125 preprotein translocase subunit SecE 133638 133913
 NMB0126 transcription antitermination protein NusG 133918 134451
 NMB0127 50S ribosomal protein L11 134555 134986
 NMB0128 50S ribosomal protein L1 134989 135681
 NMB0129 hypothetical protein 135753 135893
 NMB0130 50S ribosomal protein L10 135914 136411
 NMB0131 50S ribosomal protein L7/L12 136472 136840
 NMB0132 DNA-directed RNA polymerase, beta subunit FRAMESHIFT 137027 141208
 NMB0133 DNA-directed RNA polymerase, beta' subunit 141368 145540
 NMB0134 hypothetical protein 145835 146089
 NMB0135 conserved hypothetical protein 146089 146235
 NMB0136 30S ribosomal protein S12 146417 146785
 NMB0137 30S ribosomal protein S7 146906 147373
 NMB0138 elongation factor G (EF-G) 147395 149497
 NMB0139 translation elongation factor Tu 149586 150767
 NMB0140 30S ribosomal protein S10 150788 151096
 NMB0141 transposase, truncation 151241 151603
 NMB0142 50S ribosomal protein L3 151777 152418
 NMB0143 50S ribosomal protein L4 152421 153038
 NMB0144 50S ribosomal protein L23 153038 153349
 NMB0145 50S ribosomal protein L2 153358 154188
 NMB0146 30S ribosomal protein S19 154198 154473
 NMB0147 50S ribosomal protein L22 154485 154811
 NMB0148 30S ribosomal protein S3 154824 155513
 NMB0149 50S ribosomal protein L16 155500 155913
 NMB0150 50S ribosomal protein L29 155916 156104
 NMB0151 30S ribosomal protein S17 156107 156367
 NMB0152 50S ribosomal protein L14 156592 156957
 NMB0153 50S ribosomal protein L24 156972 157292
 NMB0154 50S ribosomal protein L5 157305 157841
 NMB0155 30S ribosomal protein S14 157847 158149
 NMB0156 30S ribosomal protein S8 158168 158557
 NMB0157 50S ribosomal protein L6 158574 159104
 NMB0158 50S ribosomal protein L18 159121 159471
 NMB0159 30S ribosomal protein S5 159493 160008
 NMB0160 50S ribosomal protein L30 160004 160186
 NMB0161 50S ribosomal protein L15 160191 160622
 NMB0162 preprotein translocase SecY subunit 160637 161944
 NMB0163 translation initiation factor IF-1 161952 162167
 NMB0164 50S ribosomal protein L36 162191 162301
 NMB0165 30S ribosomal protein S13 162370 162729
 NMB0166 30S ribosomal protein S11 162752 163144
 NMB0167 30S ribosomal protein S4 163167 163784
 NMB0168 DNA-directed RNA polymerase, alpha subunit 163813 164796
 NMB0169 50S ribosomal protein L17 164823 165188
 NMB0170 septum site-determining protein MinC 165338 166048
 NMB0171 septum site-determining protein MinD 166079 166891
 NMB0172 cell division topological specificity factor 166898 167158
 NMB0173 transcriptional regulator, LysR family 167165 168082
 NMB0174 valyl-tRNA synthetase 171252 168418
 NMB0175 conserved hypothetical protein 172158 171352
 NMB0176 D-amino acid dehydrogenase, small subunit 173595 172342
 NMB0177 sodium/alanine symporter, putative 175065 173677
 NMB0178 acyl-(acyl-carrier-protein)--UDP-N-acetylglucosamine O-acyltransferase 176198 175425

Appendix B

-4-

NMB0179 (3R)-hydroxymyristoyl-(acyl carrier protein) dehydratase 176734
 176288
 NMB0180 UDP-3-O-(3-hydroxymyristoyl)-glucosamine N-acyltransferase 177814
 176771
 NMB0181 outer membrane protein OmpH, putative 178347 177850
 NMB0182 outer membrane protein Omp85 180806 178416
 NMB0183 conserved hypothetical protein 182203 180866
 NMB0184 1-deoxy-D-xylulose 5-phosphate reductoisomerase 183422 182241
 NMB0185 phosphatidate cytidyltransferase 184275 183481
 NMB0186 undecaprenyl pyrophosphate synthetase 185024 184281
 NMB0187 ribosome recycling factor 185637 185083
 NMB0188 conserved hypothetical protein 186944 185820
 NMB0189 hypothetical protein 187355 187774
 NMB0190 glucose inhibited division protein B 187935 188555
 NMB0191 ParA family protein 188657 189427
 NMB0192 ribonuclease HII 191274 190693
 NMB0193 glucose inhibited division protein A 193238 191346
 NMB0194 amino acid symporter, putative 194991 193567
 NMB0195 pyridoxal phosphate biosynthetic protein PdxA 195133 196137
 NMB0196 ribonuclease E 200197 197441
 NMB0197 hypothetical protein 200321 200605
 NMB0198 ribosomal large subunit pseudouridine synthase C 200690 201679
 NMB0199 lipid-A-disaccharide synthase 201730 202899
 NMB0200 hypothetical protein 203501 203115
 NMB0201 hypothetical protein 203724 204131
 NMB0202 hypothetical protein 204152 204322
 NMB0203 dihydrodipicolinate reductase 205207 204401
 NMB0204 lipoprotein, putative 205594 205220
 NMB0205 ferric uptake regulation protein 205813 206244
 NMB0206 leucyl/phenylalanyl-tRNA--protein transferase 206317 207039
 NMB0207 glyceraldehyde 3-phosphate dehydrogenase 208326 207298
 NMB0208 ferredoxin, 4Fe-4S bacterial type 209364 208528
 NMB0209 glutathione-regulated potassium-efflux system protein 209513
 211486
 NMB0210 site-specific DNA methylase, truncation 212082 212401
 NMB0211 L-serine dehydratase 214093 212711
 NMB0212 DNA gyrase subunit B 216580 214193
 NMB0213 hypothetical protein 216736 217719
 NMB0214 oligopeptidase A 217810 219843
 NMB0215 conserved hypothetical protein 221035 220472
 NMB0216 catalase 222945 221434
 NMB0217 RNA polymerase sigma-54 factor RpoN, putative 223293 224141
 NMB0218 glycosyltransferase 226194 225067
 NMB0219 3-oxoacyl-(acyl-carrier-protein) synthase II 227746 226502
 NMB0220 acyl carrier protein 228138 227905
 NMB0221 dihydroorotate dehydrogenase 228370 229374
 NMB0222 hypothetical protein 229540 230010
 NMB0223 hypothetical protein 230140 230355
 NMB0224 glutamate-ammonia-ligase adenyltransferase 230556 232343
 NMB0225 transposase, IS30 family FRAMESHIFT 234513 233551
 NMB0226 conserved hypothetical protein 235470 234781
 NMB0227 conserved hypothetical protein 236771 235581
 NMB0228 conserved hypothetical protein 237637 236903
 NMB0229 conserved hypothetical protein FRAMESHIFT 238552 237662
 NMB0230 conserved hypothetical protein 239196 238552
 NMB0231 hypothetical protein 239356 239255 N
 NMB0232 DNA helicase II 239380 241584
 NMB0233 hypothetical protein 241663 241761
 NMB0234 hypothetical protein 242111 242647
 NMB0235 hypothetical protein 243052 242894
 NMB0236 hypothetical protein 243168 243063
 NMB0237 hypothetical protein 243535 243179
 NMB0238 IS1016 family transposase, degenerate 243588 243849
 NMB0239 hypothetical protein 244051 244668

Appendix B

-5-

NMB0240 hypothetical protein 244694 246142
 NMB0241 NADH dehydrogenase I, A subunit 246607 246960
 NMB0242 NADH dehydrogenase I, B subunit 246954 247433
 NMB0243 NADH dehydrogenase I, C subunit 247449 248039
 NMB0244 NADH dehydrogenase I, D subunit 248032 249285
 NMB0245 NADH dehydrogenase I, E subunit 249288 249758
 NMB0246 NADH dehydrogenase I, F subunit 250151 251449
 NMB0247 hypothetical protein 251452 251886
 NMB0248 conserved hypothetical protein 252175 252411
 NMB0249 NADH dehydrogenase I, G subunit 252726 254984
 NMB0250 NADH dehydrogenase I, H subunit 254990 256063
 NMB0251 NADH dehydrogenase I, I subunit 256147 256623
 NMB0252 hypothetical protein 256657 257361
 NMB0253 NADH dehydrogenase I, J subunit 257400 258068
 NMB0254 NADH dehydrogenase I, K subunit 258068 258370
 NMB0255 cell filamentation protein FliC-related protein 258407 258979
 NMB0256 hypothetical protein 259106 259444
 NMB0257 NADH dehydrogenase I, L subunit 259496 261517
 NMB0258 NADH dehydrogenase I, M subunit 261616 263109
 NMB0259 NADH dehydrogenase I, N subunit 263122 264561
 NMB0260 hypothetical protein 264612 264995
 NMB0261 geranyltranstransferase 265863 265087
 NMB0262 exodeoxyribonuclease, small subunit 266188 265967
 NMB0263 conserved hypothetical protein 267358 266438
 NMB0264 ABC transporter, ATP-binding protein 269219 267366
 NMB0265 Holliday junction DNA helicase RuvA 269966 269385
 NMB0266 conserved hypothetical protein 270374 270051
 NMB0267 conserved hypothetical protein 271155 270439
 NMB0268 RNA methyltransferase, TrmH family 271749 271288
 NMB0269 competence protein 272539 271817
 NMB0270 bioH protein, putative 272538 273284
 NMB0271 hypothetical protein 273284 274069
 NMB0272 hypothetical protein 274527 274820
 NMB0273 hypothetical protein 274861 275283
 NMB0274 ATP-dependent DNA helicase RecQ 277728 275431
 NMB0275 indole-3-glycerol phosphate synthase 278575 277796
 NMB0276 conserved hypothetical protein 279582 278629
 NMB0277 virulence factor MviN 281255 279717
 NMB0278 thiol:disulfide interchange protein DsbA 281470 282165
 NMB0279 conserved hypothetical protein 283229 282228
 NMB0280 organic solvent tolerance protein, putative 283431 285704
 NMB0281 peptidyl-prolyl cis-trans isomerase 285809 286852
 NMB0282 ribonuclease II-related protein 290243 288366
 NMB0283 conserved hypothetical protein 290552 291181
 NMB0284 adenylosuccinate lyase 291256 292623
 NMB0285 O-antigen acetylase FRAMESHIFT 292707 294573
 NMB0286 conserved hypothetical protein 295481 294870
 NMB0287 probable ATP-dependent helicase DinG 297668 295521
 NMB0288 hypothetical protein 297740 297967
 NMB0289 deoxyribodipyrimidine photolyase, FRAMESHIFT 299363 298066
 NMB0290 transcriptional regulator, putative 300264 299356
 NMB0291 conserved hypothetical protein 300372 300767
 NMB0292 conserved hypothetical protein 300819 301421
 NMB0293 TonB-dependent receptor, putative 301610 303718
 NMB0294 thiol:disulfide interchange protein DsbA 303836 304528
 NMB0295 signal recognition particle protein 306232 304865
 NMB0296 CcsA-related protein 306452 307255
 NMB0297 hypothetical protein 307272 307367
 NMB0298 hypothetical protein 307401 307583
 NMB0299 comEA-related protein 313097 313540
 NMB0300 hypothetical protein 313603 313904
 NMB0301 Hypothetical protein 313958 314161
 NMB0302 IS1016C2 transposase, degenerate 314284 314933
 NMB0303 transposase, degenerate 315024 315307

Appendix B

-6-

NMB0304 class 5 outer membrane protein, degenerate 315549 315295
 NMB0305 hypothetical protein 315891 315736
 NMB0306 hypothetical protein 316061 316252
 NMB0307 phospho-2-dehydro-3-deoxyheptonate aldolase, phe-sensitive 316403 317455
 NMB0308 dihydrofolate reductase 317526 318011
 NMB0309 conserved hypothetical protein 318840 318367
 NMB0310 conserved hypothetical protein 319280 318855
 NMB0311 hypothetical protein 319392 319634
 NMB0312 virulence-associated protein VapA FRAMESHIFT 321089 323177
 NMB0313 conserved hypothetical protein 323422 324885
 NMB0314 hypothetical protein 326057 325092
 NMB0315 conserved hypothetical protein 326135 327424
 NMB0316 conserved hypothetical protein 328616 327933
 NMB0317 conserved hypothetical protein 329164 328694
 NMB0318 fatty acid efflux system protein 329606 330757
 NMB0319 fatty acid efflux system protein 330784 332307
 NMB0320 hypothetical protein 332373 332519
 NMB0321 50S ribosomal protein L28 332560 332790
 NMB0322 50S ribosomal protein L33 332825 332977
 NMB0323 UbiH family protein 334353 333172
 NMB0324 50S ribosomal protein L27 334964 334695
 NMB0325 50S ribosomal protein L21 335297 334992
 NMB0326 octaprenyl-diphosphate synthase 335521 336492
 NMB0327 conserved hypothetical protein FRAMESHIFT 336500 336944
 NMB0328 hypothetical protein 336993 337165
 NMB0329 type IV pilus assembly protein 337388 339061
 NMB0330 conserved hypothetical protein 339358 339152
 NMB0331 kinase, putative 339983 339354
 NMB0332 type IV prepilin peptidase 340845 339988
 NMB0333 pilus assembly protein PilG 342151 340922
 NMB0334 glucose-6-phosphate isomerase 342508 344148
 NMB0335 2,3,4,5-tetrahydropyridine-2-carboxylate N-succinyltransferase 344361 345179
 NMB0336 enoyl-(acyl-carrier-protein) reductase 345337 346119
 NMB0337 branched-chain amino acid aminotransferase, putative 347364 346369
 NMB0338 hypothetical protein 347506 347985
 NMB0339 conserved hypothetical protein 347999 349165
 NMB0340 lactoylglutathione lyase FRAMESHIFT 349193 349605
 NMB0341 tspA protein 352407 349783
 NMB0342 intracellular septation protein A 352613 353140
 NMB0343 conserved hypothetical protein 353158 353433
 NMB0344 BoA/YrbA family protein 353436 353711
 NMB0345 cell-binding factor, putative 353763 354626
 NMB0346 hypothetical protein 354700 355455
 NMB0347 conserved hypothetical protein 355531 356019
 NMB0348 conserved hypothetical protein 356053 357060
 NMB0349 glutamyl-tRNA synthetase-related protein 358020 357136
 NMB0350 hypothetical protein 358760 358311
 NMB0351 transaldolase 359966 358914
 NMB0352 sugar isomerase, KpsF/GutQ family 360063 361034
 NMB0353 conserved hypothetical protein 361255 361788
 NMB0354 hypothetical protein 361788 362366
 NMB0355 conserved hypothetical protein 362350 362877
 NMB0356 ABC transporter, ATP-binding protein 362924 363685
 NMB0357 monofunctional biosynthetic peptidoglycan transglycosylase 364858 364160
 NMB0358 shikimate 5-dehydrogenase 365670 364864
 NMB0359 glutamate--ammonia ligase 365970 367385
 NMB0360 AmpG-related protein 367544 368824
 NMB0361 conserved hypothetical protein 368824 369096
 NMB0362 hypothetical protein 369205 369282
 NMB0363 hypothetical protein 369610 369744
 NMB0364 FrpC operon protein 370088 370858

Appendix B

-7-

NMB0365 iron-regulated protein FrpC, truncation 370878 371150
 NMB0366 hypothetical protein 372373 371243
 NMB0367 hypothetical protein 372823 372440
 NMB0368 hypothetical protein 373350 372895
 NMB0369 hypothetical protein 373720 373334
 NMB0370 hypothetical protein 374229 373855
 NMB0371 hypothetical protein 374658 374254
 NMB0372 hypothetical protein 375341 374667
 NMB0373 hypothetical protein 375915 375559
 NMB0374 MafB-related protein 377321 375921
 NMB0375 mafA protein 378266 377328
 NMB0376 hypothetical protein 378379 378266
 NMB0377 conserved hypothetical protein 379516 378389
 NMB0378 phosphate permease, putative 379807 381378
 NMB0379 oxygen-independent coproporphyrinogen III oxidase 383155 381737
 NMB0380 transcriptional regulator, Crp/Fnr family 383360 384091
 NMB0381 cys regulon transcriptional activator 385157 384210
 NMB0382 outer membrane protein class 4 385521 386246
 NMB0383 hypothetical protein 386270 386494
 NMB0384 hypothetical protein 386773 387066
 NMB0385 thiamin-monophosphate kinase 387100 388053
 NMB0386 phosphatidylglycerophosphatase A 388049 388531
 NMB0387 ABC transporter, ATP-binding protein 390270 388597
 NMB0388 sugar transporter, putative 390657 392009
 NMB0389 aldose 1-epimerase 392016 393023
 NMB0390 maltose phosphorylase 393260 395515
 NMB0391 beta-phosphoglucosaminidase 395531 396193
 NMB0392 L-aspartate oxidase 397882 396377
 NMB0393 multidrug resistance protein 398266 397934
 NMB0394 quinolinate synthetase A 399530 398421
 NMB0395 conserved hypothetical protein 399732 400667
 NMB0396 nicotinate-nucleotide pyrophosphorylase 400888 401766
 NMB0397 hypothetical protein 401797 402081
 NMB0398 transcriptional regulator, ArsR family 402176 402454
 NMB0399 exodeoxyribonuclease III 402517 403284
 NMB0400 transposase, truncated 404230 404799
 NMB0401 proline dehydrogenase 409441 405839
 NMB0402 sodium/proline symporter 411216 409693
 NMB0403 hypothetical protein 411644 411555
 NMB0404 conserved hypothetical protein 411699 412016
 NMB0405 competence protein ComM 412033 413526
 NMB0406 conserved hypothetical protein 413629 414495
 NMB0407 thiol:disulfide interchange protein DsbA 414501 415142
 NMB0408 bacitracin resistance protein 415178 415996
 NMB0409 conserved hypothetical protein 417783 416575
 NMB0410 conserved hypothetical protein 418062 418514
 NMB0411 conserved hypothetical protein 418514 419497
 NMB0412 cell division protein FtsL-related protein 419491 419757
 NMB0413 penicillin-binding protein 2 419821 421563
 NMB0414 UDP-N-acetylmuramoylalananyl-D-glutamate--2,6-diaminopimelate ligase
 421591 423066
 NMB0415 conserved hypothetical protein FRAMESHIFT 423092 424736
 NMB0416 UDP-N-acetylmuramoylalananyl-D-glutamate--2,6-diaminopimelate--D-
 alanyl-D-alanyl ligase 424864 426228
 NMB0417 hypothetical protein 426234 426407
 NMB0418 phospho-N-acetylmuramoyl-pentapeptide-transferase 426657 427736
 NMB0419 conserved hypothetical protein 427865 428458
 NMB0420 UDP-N-acetylmuramoylalanine--D-glutamate ligase 428545 429879
 NMB0421 cell division protein FtsW 430062 431330
 NMB0422 UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide)
 pyrophosphoryl-undecaprenol N-acetylglucosamine transferase
 431337 432401
 NMB0423 UDP-N-acetylmuramate--alanine ligase 432559 433965
 NMB0424 D-alanine--D-alanine ligase 434081 434992

Appendix B

-8-

NMB0425 cell division protein FtsQ 435006 435710
 NMB0426 cell division protein FtsA 435799 437040
 NMB0427 cell division protein FtsZ 437162 438337
 NMB0428 conserved hypothetical protein 438479 439786
 NMB0429 hypothetical protein 440162 440263
 NMB0430 carboxyphosphonoenolpyruvate phosphonmutase, putative 440412 441287
 NMB0431 methylcitrate synthase/citrate synthase 2 441376 442527
 NMB0432 conserved hypothetical protein 442683 443468
 NMB0433 aconitate hydratase 1 443549 446152
 NMB0434 conserved hypothetical protein 446958 448124
 NMB0435 acetate kinase 448541 449737
 NMB0436 conserved hypothetical protein 450078 450716
 NMB0437 conserved hypothetical protein 451289 450849
 NMB0438 hypothetical protein 451463 451828
 NMB0439 conserved hypothetical protein 451876 453027
 NMB0440 prephenate dehydrogenase, putative 453959 453090
 NMB0441 nitrilase 454044 454853
 NMB0442 opacity protein FRAMESHIFT 455681 454888
 NMB0443 transposase, IS30 family 456456 457418
 NMB0444 conserved hypothetical protein 457979 458830
 NMB0445 bicyclomycin resistance protein, putative 459352 460581
 NMB0446 chorismate mutase/prephenate dehydratase 460662 461747
 NMB0447 DNA repair protein RecO 461787 462575
 NMB0448 pyridoxal phosphate biosynthetic protein PdxJ 462602 463327
 NMB0449 hypothetical protein 463482 463703
 NMB0450 hypothetical protein 463968 464411
 NMB0451 hypothetical protein 464424 465188
 NMB0452 holo-(acyl-carrier protein) synthase 465391 465765
 NMB0453 mutT protein 465850 466656
 NMB0454 hypothetical protein 466652 467071
 NMB0455 conserved hypothetical protein 467123 468262
 NMB0456 N-acetylmuramoyl-L-alanine amidase 469573 468326
 NMB0457 conserved hypothetical protein 470031 469573
 NMB0458 glutamate racemase 470233 471042
 NMB0459 conserved hypothetical protein 473202 472096
 NMB0460 transferrin-binding protein 2 475573 477708
 NMB0461 transferrin-binding protein 1 477798 480542
 NMB0462 spermidine/putrescine ABC transporter, periplasmic spermidine/putrescine-binding protein 483195 481819
 NMB0463 30S ribosomal protein S20 483261 483521
 NMB0464 phospholipase A1, putative 483685 484830
 NMB0465 conserved hypothetical protein 484976 485674
 NMB0466 aspartyl-tRNA synthetase 485735 487540
 NMB0467 hypothetical protein 487694 487975
 NMB0468 biosynthetic arginine decarboxylase 488145 490034
 NMB0469 agmatinase 490136 491056
 NMB0470 C4-dicarboxylate transporter 491257 492720
 NMB0471 conserved hypothetical protein 494006 492933
 NMB0472 8-amino-7-oxononanoate synthase 494229 495368
 NMB0473 conserved hypothetical protein 495381 496025
 NMB0474 biotin synthesis protein BioC, putative 496016 496795
 NMB0475 hypothetical protein 497063 498451
 NMB0476 hypothetical protein 498457 499551
 NMB0477 conserved hypothetical protein 499566 500099
 NMB0478 hypothetical protein 500104 500745
 NMB0479 conserved hypothetical protein 500771 501127
 NMB0480 TspB-related protein 502193 501801
 NMB0481 hypothetical protein 502509 502180
 NMB0482 hypothetical protein 502900 502625
 NMB0483 hypothetical protein 503191 502910
 NMB0484 hypothetical protein 503396 503202
 NMB0485 hypothetical protein 503691 503404
 NMB0486 conserved hypothetical protein FRAMESHIFT 505078 503739

Appendix B

-9-

NMB0487 hypothetical protein 505244 505152
 NMB0488 hypothetical protein 505800 505309
 NMB0489 hypothetical protein 506682 505804
 NMB0490 PspA-related protein 507809 506910
 NMB0491 hypothetical protein 508744 508304
 NMB0492 hypothetical protein 509383 509063
 NMB0493 hemagglutinin/hemolysin-related protein 517494 509386
 NMB0494 DNA helicase, truncation 518107 517625
 NMB0495 replication protein 519187 518207
 NMB0496 hemolysin activator-related protein 519134 520810
 NMB0497 hemagglutinin/hemolysin-related protein 520922 526826
 NMB0498 hypothetical protein 526836 527342
 NMB0499 hypothetical protein 527471 529090
 NMB0500 hypothetical protein 529102 529476
 NMB0501 hypothetical protein 529757 530128
 NMB0502 hypothetical protein 530166 532115
 NMB0503 hypothetical protein 532134 532562
 NMB0504 hypothetical protein 532780 532992
 NMB0506 hypothetical protein 533691 535208
 NMB0507 hypothetical protein 535208 535693
 NMB0508 hypothetical protein 535883 536152
 NMB0509 hypothetical protein 536335 537114
 NMB0510 hypothetical protein 537136 537396
 NMB0511 hypothetical protein 537506 539425
 NMB0512 hypothetical protein 539437 539856
 NMB0513 hypothetical protein 539896 540294
 NMB0514 hypothetical protein 540420 540656
 NMB0515 hypothetical protein 540656 541036
 NMB0516 hypothetical protein 541042 541974
 NMB0517 hypothetical protein 542172 542020
 NMB0518 hypothetical protein 542486 542734
 NMB0519 hypothetical protein 542725 542925
 NMB0520 hypothetical protein 542931 543107
 NMB0521 hypothetical protein 543492 543947
 NMB0522 transposase, truncated 543958 544080
 NMB0523 ABC transporter, ATP-binding protein, truncation 544162 544441
 NMB0524 ribonuclease BN, putative 545691 544474
 NMB0525 aluminum resistance protein, putative 546236 546892
 NMB0526 hypothetical protein 546923 547438
 NMB0527 6-pyruvoyl tetrahydrobiopterin synthase, putative 547448 547867
 NMB0528 conserved hypothetical protein 548139 548507
 NMB0529 conserved hypothetical protein 548507 549142
 NMB0530 glycosyl hydrolase, family 3 550869 549787
 NMB0531 conserved hypothetical protein 552446 550929
 NMB0532 protease DO 554147 552651
 NMB0533 endonuclease III 554914 554288
 NMB0534 conserved hypothetical protein 555373 554963
 NMB0535 glucose/galactose transporter 555906 557183
 NMB0536 Na⁺/H⁺ antiporter 557477 558853
 NMB0537 conserved hypothetical protein 559809 558988
 NMB0538 conserved hypothetical protein 560326 559820
 NMB0539 porphobilinogen deaminase 560445 561377
 NMB0540 aspartate aminotransferase 562977 561787
 NMB0541 hypothetical protein 563556 563062
 NMB0542 hypothetical protein 563672 563872
 NMB0543 L-lactate permease, putative 565630 564047
 NMB0544 conserved hypothetical protein 566621 565902
 NMB0545 conserved hypothetical protein 566870 570352
 NMB0546 alcohol dehydrogenase, propanol-preferring 571566 570523
 NMB0547 type IV pilin protein 572238 571852
 NMB0548 AcrA/AcrE family protein 572464 573639
 NMB0549 ABC transporter, ATP-binding protein 573708 575639
 NMB0550 thiol:disulfide interchange protein DsbC 576837 576058
 NMB0551 primordial protein n' 576975 579161

Appendix B

-10-

NMB0552 hypothetical protein 580284 579214
 NMB0553 transposase, putative, POINT MUTATION 581288 580335
 NMB0554 dnaK protein 584451 582526
 NMB0555 hypothetical protein 584931 584662
 NMB0556 repressor protein, putative 585119 585802
 NMB0557 conserved hypothetical protein 585937 586272
 NMB0558 hypothetical protein 586435 586896
 NMB0559 ubiquinone biosynthesis protein AarF 586934 588442
 NMB0560 serine acetyltransferase 589620 588805
 NMB0561 grpE protein 589804 590379
 NMB0562 conserved hypothetical protein 590874 590662
 NMB0563 thiamine biosynthesis lipoprotein ApbE 591955 590903
 NMB0564 Na(+)-translocating NADH-quinone reductase, subunit F 593325
 592111
 NMB0565 Na(+)-translocating NADH-quinone reductase, subunit E 593932
 593342
 NMB0566 Na(+)-translocating NADH-quinone reductase, subunit D 594562
 593939
 NMB0567 Na(+)-translocating NADH-quinone reductase, subunit C 595338
 594565
 NMB0568 Na(+)-translocating NADH-quinone reductase, subunit B 596563
 595334
 NMB0569 Na(+)-translocating NADH-quinone reductase, subunit A 597909
 596569
 NMB0570 hypothetical protein 599680 598262
 NMB0571 conserved hypothetical protein 600400 600044
 NMB0572 hypothetical protein 601002 600400
 NMB0573 transcriptional regulator, AsnC family 601612 601052
 NMB0574 glycine cleavage system T protein 602042 603139
 NMB0575 glycine cleavage system H protein 603304 603687
 NMB0576 glutamyl-tRNA reductase 603842 605086
 NMB0577 NosR-related protein 605365 605934
 NMB0578 copper ABC transporter, periplasmic copper-binding protein 605991
 607022
 NMB0579 copper ABC transporter, ATP-binding protein 607083 607700
 NMB0580 protein disulfide isomerase NosL, putative 607842 608333
 NMB0581 electron transfer flavoprotein-ubiquinone oxidoreductase 610085
 608427
 NMB0582 bacteriocin resistance protein, putative 610757 610218
 NMB0583 IS1016C2 transposase 612651 611986
 NMB0584 FrcP operon protein 613242 614054
 NMB0585 iron-regulated protein FrpA, putative 614074 617979
 NMB0586 adhesin, putative 619176 618265
 NMB0587 membrane protein 620128 619256
 NMB0588 ABC transporter, ATP-binding protein 620907 620155
 NMB0589 50S ribosomal protein L19 621563 621201
 NMB0590 tRNA (guanine-N1)-methyltransferase FRAMESHIFT 622329 621582
 NMB0591 16S rRNA processing protein RimM 622838 622332
 NMB0592 30S ribosomal protein S16 623099 622857
 NMB0593 conserved hypothetical protein 625570 623147
 NMB0594 sensor histidine kinase 627094 625691
 NMB0595 DNA-binding response regulator 627785 627111
 NMB0596 hypothetical protein 629789 629798
 NMB0597 hypothetical protein 630132 629782
 NMB0598 Maf/YceP/YhdE family protein 630749 630144
 NMB0599 conserved hypothetical protein 631572 630805
 NMB0600 hypothetical protein 632272 631589
 NMB0601 conserved hypothetical protein 632479 632279
 NMB0602 hitA protein 632849 632529
 NMB0603 phosphoribosyl-ATP cyclohydrolase 633244 632924
 NMB0604 alcohol dehydrogenase, zinc-containing 634449 633388
 NMB0605 histone deacetylase family protein 636107 635001
 NMB0606 conserved hypothetical protein 636235 636498
 NMB0607 protein-export membrane protein SecD 636710 638563

Appendix B

-11-

NMB0608 protein-export membrane protein SecF 638570 639502
 NMB0609 30s ribosomal protein S15 639728 639994
 NMB0610 spermidine/putrescine ABC transporter, ATP-binding protein 640243 641499
 NMB0611 spermidine/putrescine ABC transporter, permease protein 641518 642480
 NMB0612 spermidine/putrescine ABC transporter, permease protein 642483 643367
 NMB0613 hypothetical protein 643392 643496
 NMB0614 oxidoreductase, putative 643496 644788
 NMB0615 ammonium transporter AmtB, putative 646340 645039
 NMB0616 IS1016 family transposase, degenerate 647272 646871
 NMB0617 transcription termination factor Rho 648837 647581
 NMB0618 phosphoenolpyruvate synthase 651441 649060
 NMB0619 conserved hypothetical protein 651853 652671
 NMB0620 phosphoglycolate phosphatase 653575 652916
 NMB0621 conserved hypothetical protein 654440 653616
 NMB0622 outer membrane lipoprotein carrier protein 654867 655487
 NMB0623 spermidine/putrescine ABC transporter, periplasmic
 spermidine/putrescine-binding protein 655763 656899
 NMB0624 galactosyltransferase-related protein FRAMESHIFT 657035 658253
 NMB0625 conserved hypothetical protein 658297 658824
 NMB0626 peptide chain release factor 3 660797 659205
 NMB0627 phosphoribosyl-AMP cyclohydrolase 661299 660907
 NMB0628 HisF protein 662097 661333
 NMB0629 phosphoribosylformimino-5-aminoimidazole carboxamide ribotide
 isomerase 662847 662113
 NMB0630 amidotransferase HisH 663518 662883
 NMB0631 phosphate acetyltransferase Pta, putative 665151 663652
 NMB0632 iron(III) ABC transporter, ATP-binding protein 666394 665339
 NMB0633 iron(III) ABC transporter, permease protein 667932 666418
 NMB0634 iron(III) ABC transporter, periplasmic binding protein 668995 668003
 NMB0635 transposase, IS30 family 670247 669285
 NMB0636 hypothetical protein 670794 670414
 NMB0637 argininosuccinate lyase 672228 670855
 NMB0638 UTP--glucose-1-phosphate uridylyltransferase 673116 672250
 NMB0639 conserved hypothetical protein 673743 673147
 NMB0640 hypothetical protein 673969 673739
 NMB0641 inorganic pyrophosphatase 674610 674080
 NMB0642 dATP pyrophosphohydrolase 675169 674714
 NMB0643 MafB-related protein 675614 677437
 NMB0644 hypothetical protein 677443 677904
 NMB0645 ribonuclease FRAMESHIFT 677948 678275
 NMB0646 ribonuclease inhibitor barstar 678290 678574
 NMB0647 hypothetical protein 679091 680326
 NMB0648 hypothetical protein 680357 680776
 NMB0649 hypothetical protein 680970 681191
 NMB0650 hypothetical protein 681167 681583
 NMB0651 hypothetical protein 681687 682073
 NMB0652 mafA protein 682199 683137
 NMB0653 MafB-related protein 683144 684409
 NMB0654 hypothetical protein 684415 684729
 NMB0655 hypothetical protein 684867 685571
 NMB0656 hypothetical protein 685600 685926
 NMB0657 hypothetical protein 686024 686224
 NMB0658 Hypothetical protein 686055 686312
 NMB0659 hypothetical protein 686346 686744
 NMB0660 hypothetical protein 686929 687315
 NMB0661 bis(5'-nucleosyl)-tetraphosphatase, symmetrical/Trk system
 potassium uptake protein TrkG FRAMESHIFT 689659 687362
 NMB0662 ribonuclease, putative 690126 689740
 NMB0663 outer membrane protein NsgA 690786 690265
 NMB0664 hypothetical protein 691151 690960

Appendix B

-12-

NMB0665 oxygen-independent coprophorphyrinogen III oxidase family protein
 692546 691374
 NMB0666 DNA ligase 695128 692606
 NMB0667 hypothetical protein 696562 695279
 NMB0668 ampD protein 697352 696783
 NMB0669 conserved hypothetical protein 697436 698428
 NMB0670 thymidylate kinase 698491 699108
 NMB0671 malate oxidoreductase (NAD) 699333 700610
 NMB0672 tetraacyl-disaccharide 4'-kinase 701160 702191
 NMB0673 hypothetical protein 702394 702978
 NMB0674 conserved hypothetical protein 703050 703229
 NMB0675 3-deoxy-D-manno-octulosonate cytidylyltransferase 703229 703987
 NMB0676 hypothetical protein 704013 704411
 NMB0677 hypothetical protein 704610 704723
 NMB0678 tryptophan synthase, alpha subunit 705306 706088
 NMB0679 acetyl-CoA carboxylase, carboxyl transferase beta subunit 706129
 706998
 NMB0680 cryptic protein 707672 707064
 NMB0681 conserved hypothetical protein 707781 708002
 NMB0682 dihydroorotase 708368 709399
 NMB0683 N utilization substance protein B 710195 709773
 NMB0684 riboflavin synthase, beta subunit 710749 710276
 NMB0685 hypothetical protein 711120 710800
 NMB0686 ribonuclease III 711287 712003
 NMB0687 GTP-binding protein Era 712003 712974
 NMB0688 N-(5'-phosphoribosyl)anthranilate isomerase 715446 714823
 NMB0689 transcription elongation factor GreB 715996 715508
 NMB0690 amidophosphoribosyltransferase 717640 716099
 NMB0691 colicin V production protein, putative 718450 717956
 NMB0692 tpc protein 719441 718446
 NMB0693 folylpolyglutamate synthase/dihydrofolate synthase 720728 719457
 NMB0694 folI protein 721205 720762
 NMB0695 hypothetical protein 721569 721213
 NMB0696 amino acid ABC transporter, ATP-binding protein FRAMESHIFT 722369
 721645
 NMB0697 dimethyladenosine transferase 723321 722545
 NMB0698 hypothetical protein 723518 724204
 NMB0699 tryptophan synthase, beta subunit 724290 725489
 NMB0700 IgA-specific serine endopeptidase 731118 725674
 NMB0701 hypothetical protein 731531 731280
 NMB0702 competence protein ComA 732529 734601
 NMB0703 competence lipoprotein ComL 735635 734835
 NMB0704 ribosomal large subunit pseudouridine synthase D 735634 736755
 NMB0705 transporter 737858 736914
 NMB0706 conserved hypothetical protein 738418 739194
 NMB0707 rare lipoprotein B, putative 739249 739725
 NMB0708 DNA polymerase III, delta subunit 739730 740725
 NMB0709 Hypothetical protein 740849 741265
 NMB0710 Hypothetical protein 741293 741856
 NMB0711 conserved hypothetical protein FRAMESHIFT 742826 741946
 NMB0712 RNA polymerase sigma-32 factor 744182 743313
 NMB0713 apolipoprotein N-acyltransferase, putative 746012 744441
 NMB0714 conserved hypothetical protein FRAMESHIFT 746771 746019
 NMB0715 Hypothetical protein 746967 747284
 NMB0716 Hypothetical protein 747440 747727
 NMB0717 cytochrome, putative 748209 747796
 NMB0718 ferrochelatase 749572 748493
 NMB0719 queuine tRNA-ribosyltransferase 750697 749585
 NMB0720 threonyl-tRNA synthetase 751005 752915
 NMB0721 translation initiation factor 3 752990 753454
 NMB0722 50S ribosomal protein L35 753604 753798
 NMB0723 50S ribosomal protein L20 753814 754170
 NMB0724 phenylalanyl-tRNA synthetase, alpha chain 754519 755508
 NMB0725 modification methylase HgaI-1 755694 756749

Appendix B

-13-

NMB0726 type II restriction enzyme HgaI 756755 758221
 NMB0727 N-6 adenine-specific DNA methylase 758221 758868
 NMB0728 phenylalanyl-tRNA synthetase, beta chain 758896 761256
 NMB0729 integration host factor, alpha subunit 761333 761632
 NMB0730 hypothetical protein 762257 762739
 NMB0731 hypothetical protein 763002 763226
 NMB0732 adenosylmethionine-8-amino-7-oxononanoate aminotransferase 763559 764857
 NMB0733 dethiobiotin synthase 764857 765501
 NMB0734 hypothetical protein 765519 765992
 NMB0735 4-hydroxybenzoate octaprenyltransferase 766025 766912
 NMB0736 PTS system, nitrogen regulatory IIA protein 767100 767546
 NMB0737 HPr kinase/phosphatase, putative 767551 768510
 NMB0738 conserved hypothetical protein 768494 769345
 NMB0739 conserved hypothetical protein 769429 770943
 NMB0740 DNA repair protein RecN 771255 772925
 NMB0741 conserved hypothetical protein 775384 773948
 NMB0742 conserved hypothetical protein 775684 776040
 NMB0743 ubiquinone/menaquinone biosynthesis methyltransferase UbiE 776097 776831
 NMB0744 hypothetical protein 777054 777530
 NMB0745 2-amino-4-hydroxy-6-hydroxymethylidihydropteridine-pyrophosphokinase 778153 777662
 NMB0746 conserved hypothetical protein 778537 778166
 NMB0747 conserved hypothetical protein 779157 778594
 NMB0748 host factor-I 779535 779245
 NMB0749 penicillin-binding protein 4 780602 779667
 NMB0750 bacterioferritin comigratory protein 780923 781360
 NMB0751 integrase/recombinase XerD 781415 782287
 NMB0752 bacterioferritin-associated ferredoxin, putative 782462 782659
 NMB0753 conserved hypothetical protein 782828 783058
 NMB0754 hypothetical protein 783066 783173
 NMB0755 hypothetical protein 783194 783334
 NMB0756 dTDP-L-rhamnose synthase, putative 784398 784381
 NMB0757 phosphoribosylaminoimidazole-succinocarboxamide synthase 784598 785458
 NMB0758 polyribonucleotide nucleotidyltransferase 785695 787815
 NMB0759 conserved hypothetical protein 788619 787894
 NMB0760 diaminopimelate epimerase 789006 789854
 NMB0761 hypothetical protein 789940 790164
 NMB0762 hypothetical protein 790198 790653
 NMB0763 cysteine synthase 790653 791582
 NMB0764 conserved hypothetical protein 792048 792950
 NMB0765 signal peptidase I 794128 793112
 NMB0766 GTP-binding protein LepA 796064 794274
 NMB0767 5-methylthioadenosine nucleosidase/S-adenosylhomocysteine nucleosidase 796909 796211
 NMB0768 twitching motility protein PilT 797095 798204
 NMB0769 DNA polymerase III, delta prime subunit, putative 798241 799215
 NMB0770 type IV pilus assembly protein PilZ, putative 799222 799569
 NMB0771 conserved hypothetical protein 799577 800353
 NMB0772 conserved hypothetical protein 800382 800594
 NMB0773 conserved hypothetical protein 800698 801006
 NMB0774 uracil phosphoribosyltransferase 801115 801738
 NMB0775 hypothetical protein 801764 802081
 NMB0776 conserved hypothetical protein 802335 802751
 NMB0777 uroporphyrinogen-III synthase HemD, putative 802796 803533
 NMB0778 uroporphyrin-III C-methyltransferase HemX, putative 803611 804882
 NMB0779 hypothetical protein 804882 806102
 NMB0780 hypothetical protein 806138 806575
 NMB0781 uroporphyrinogen decarboxylase 806732 807793
 NMB0782 DNA repair protein RadA 807982 809358
 NMB0783 conserved hypothetical protein 810116 809640
 NMB0784 phage shock protein E precursor, putative 810717 810361

Appendix B

-14-

NMB0785 exodeoxyribonuclease V 135 KD polypeptide 814370 810759
 NMB0786 conserved hypothetical protein 815358 814453
 NMB0787 amino acid ABC transporter, periplasmic amino acid-binding protein 815643 816467
 NMB0788 amino acid ABC transporter, permease protein 816514 817173
 NMB0789 amino acid ABC transporter, ATP-binding protein 817186 817938
 NMB0790 phosphoglucosyltransferase 819343 817964
 NMB0791 peptidyl-prolyl cis-trans isomerase 820019 819513
 NMB0792 transporter, NadC family 821553 820141
 NMB0793 hypothetical protein 821759 821553
 NMB0794 hypothetical protein 822146 821787
 NMB0795 peptidyl-tRNA hydrolase 822988 822413
 NMB0796 conserved hypothetical protein 823319 823044
 NMB0797 conserved hypothetical protein 823749 823315
 NMB0798 cell division protein FtsH 825932 823968
 NMB0799 cell division protein FtsJ 826616 825999
 NMB0800 conserved hypothetical protein 826726 827007
 NMB0801 delta-aminolevulinic acid dehydratase 827193 828191
 NMB0802 cystathionine gamma-synthase 829414 828260
 NMB0803 conserved hypothetical protein 829606 830376
 NMB0804 NAD(P)H nitroreductase, putative 830489 831151
 NMB0805 transposase, IS30 family 831295 832257
 NMB0806 conserved hypothetical protein 833050 832295
 NMB0807 conserved hypothetical protein 833965 833078
 NMB0808 hypothetical protein 834551 833988
 NMB0809 conserved hypothetical protein 835399 834605
 NMB0810 transcriptional regulator, TetR family 836104 835457
 NMB0811 UDP-N-acetylpyruvoylglucosamine reductase 837156 836119
 NMB0812 conserved hypothetical protein 838579 837203
 NMB0813 hypothetical protein 838634 838819
 NMB0814 histidyl-tRNA synthetase 838914 840062
 NMB0815 adenylosuccinate synthetase 840163 841464
 NMB0816 hypothetical protein 841592 841903
 NMB0817 hypothetical protein 841932 842312
 NMB0818 hypothetical protein 842329 842736
 NMB0819 hypothetical protein 842856 843245
 NMB0820 hypothetical protein 843456 843845
 NMB0821 hypothetical protein 843962 844519
 NMB0822 heat shock protein HtpX 845866 844826
 NMB0823 adenylate kinase 845878 846522
 NMB0824 orotidine 5'-phosphate decarboxylase 847051 847788
 NMB0825 ADP-heptose synthase, putative 847846 848814
 NMB0826 C-5 cytosine-specific DNA methylase 848854 850086
 NMB0827 type II restriction enzyme-related protein FRAMESHIFT 850091 851119
 NMB0828 ADP-L-glycero-D-mannoheptose-6-epimerase 851251 852252
 NMB0829 type I restriction enzyme EcoR124II M protein 852329 853870
 NMB0830 conserved hypothetical protein 853870 854877
 NMB0831 type I restriction enzyme S protein, degenerate 855046 856216
 NMB0832 anticodon nuclease 856277 857416
 NMB0833 type I restriction enzyme-related protein 857416 857799
 NMB0834 transposase, IS30 family 858756 857794
 NMB0835 type I restriction enzyme EcoR124II R protein, putative 858832 861594
 NMB0836 ATP-dependent Clp protease, ATP-binding subunit ClpA 863945 861639
 NMB0837 conserved hypothetical protein 864249 863950
 NMB0838 cold-shock domain family protein 864492 864692
 NMB0839 pmbA protein 866323 864995
 NMB0840 conserved hypothetical protein 866446 866979
 NMB0841 hypothetical protein 867029 867742
 NMB0842 single-stranded-DNA-specific exonuclease RecJ 867814 869511
 NMB0843 polyA polymerase 869811 871169
 NMB0844 hypothetical protein 871345 871665
 NMB0845 PhoH-related protein 872732 871782

Appendix B

-15-

NMB0846 LPS biosynthesis protein-related protein 873905 872874
 NMB0847 hypothetical protein 874235 874065
 NMB0848 hypothetical protein 874369 875070
 NMB0849 deoxycytidine triphosphate deaminase, putative 875703 875140
 NMB0850 hypothetical protein 876185 875772
 NMB0851 recombination associated protein RdcC 877146 876250
 NMB0852 essential GTPase 878634 877180
 NMB0853 conserved hypothetical protein 879413 878787
 NMB0854 histidyl-tRNA synthetase 880709 879417
 NMB0855 bacteriocin resistance protein, putative 881459 880806
 NMB0856 hypothetical protein 882208 881744
 NMB0857 hypothetical protein 882441 882268
 NMB0858 hypothetical protein 882645 882448
 NMB0859 hypothetical protein 883025 882651
 NMB0860 hypothetical protein 883340 883086
 NMB0861 hypothetical protein 883975 883433
 NMB0862 hypothetical protein 884091 883975
 NMB0863 hypothetical protein 884410 884141
 NMB0864 hypothetical protein 884966 884679
 NMB0865 hypothetical protein 885445 884975
 NMB0866 hypothetical protein 886357 885491
 NMB0867 YabO/YceC/SfhB family protein 886521 887441
 NMB0868 conserved hypothetical protein 888163 887525
 NMB0869 hypothetical protein 889009 888221
 NMB0870 3-methyl-2-oxobutanoate hydroxymethyltransferase 889502 890290
 NMB0871 pantoate-beta-alanine ligase 890416 891249
 NMB0872 conserved hypothetical protein 891416 893257
 NMB0873 outer membrane lipoprotein LolB, putative 893400 893978
 NMB0874 conserved hypothetical protein 893991 894833
 NMB0875 ribose-phosphate pyrophosphokinase 895258 896238
 NMB0876 50S ribosomal protein L25 896308 896877
 NMB0877 penicillin-binding protein 898174 897008
 NMB0878 threonine dehydratase 898322 899845
 NMB0879 sulfate ABC transporter, ATP-binding protein 900978 899908
 NMB0880 sulfate ABC transporter, permease protein 901835 900978
 NMB0881 sulfate ABC transporter, permease protein 902923 902090
 NMB0882 hypothetical protein 903214 903543
 NMB0883 conserved hypothetical protein 903878 904384
 NMB0884 superoxide dismutase 905491 904907
 NMB0885 replicative DNA helicase 905655 907058
 NMB0886 fimbrial protein FimT 907370 908035
 NMB0887 type IV pilus assembly protein PilV, putative 908056 908667
 NMB0888 hypothetical protein 908667 909605
 NMB0889 hypothetical protein 909587 910177
 NMB0890 type IV pilin-related protein 910170 910655
 NMB0891 hypothetical protein 911708 911944
 NMB0892 AzlC-related protein 912795 912376
 NMB0893 deoxyuridine 5'-triphosphate nucleotidohydrolase 912995 913444
 NMB0894 aminotransferase, class I 913525 914709
 NMB0895 conserved hypothetical protein 914975 915751
 NMB0896 integrase, FRAMESHIFT 916283 917352
 NMB0897 hypothetical protein 917468 917845
 NMB0898 hypothetical protein 917894 918079
 NMB0899 hypothetical protein 918396 918749
 NMB0900 hypothetical protein 919621 920535
 NMB0901 D-lactate dehydrogenase-related protein 920880 920599
 NMB0902 hypothetical protein 921133 920945
 NMB0903 hypothetical protein 921429 921139
 NMB0904 hypothetical protein 921686 921429
 NMB0905 hypothetical protein 921936 921724
 NMB0906 hypothetical protein 922860 922009
 NMB0907 hypothetical protein 923244 922888
 NMB0908 hypothetical protein 923512 923315
 NMB0909 hypothetical protein 924280 923759

Appendix B

-16-

NMB0910 transcriptional regulator 925000 924287
 NMB0911 transposase, IS30 family 926382 925420
 NMB0912 hypothetical protein 926526 927149
 NMB0913 pemK protein 927552 927208
 NMB0914 pemI protein 927790 927557
 NMB0915 hypothetical protein 928640 928152
 NMB0916 hypothetical protein 928799 928662
 NMB0917 death-on-curing protein 929446 929081
 NMB0918 hypothetical protein 929574 929446
 NMB0919 IS1106 transposase, putative 930929 929973
 NMB0920 isocitrate dehydrogenase 934317 932095
 NMB0921 hypothetical protein 934522 934325
 NMB0922 alpha-2,3-sialyltransferase 934750 935862
 NMB0923 cytochrome c 936488 936033
 NMB0924 oxidoreductase, short-chain dehydrogenase/reductase family 936607
 937425
 NMB0925 acyl CoA thioester hydrolase family protein 937925 937482
 NMB0926 opacity protein 940336 939513
 NMB0927 proline iminopeptidase 941840 942769
 NMB0928 hypothetical protein 944025 942832
 NMB0929 dihydrodipicolinate synthase 944909 944037
 NMB0930 xanthine/uracil permease family protein 945369 946757
 NMB0931 RNA methyltransferase, TrmH family 947574 946825
 NMB0932 conserved hypothetical protein 948129 947644
 NMB0933 cytidine and deoxycytidylate deaminase family protein 948580
 948137
 NMB0934 DNA transformation protein tfoX-related protein 948853 948625
 NMB0935 tRNA delta(2)-isopentenylpyrophosphate transferase 949798 948860
 NMB0936 hypothetical protein 951481 950180
 NMB0937 elongation factor P (EF-P) 951788 952345
 NMB0938 hypothetical protein 953235 952402
 NMB0939 conserved hypothetical protein 953933 953355
 NMB0940 homoserine O-acetyltransferase 955069 953933
 NMB0941 50S ribosomal protein L36 955756 955634
 NMB0942 50S ribosomal protein L31, putative 956031 955759
 NMB0943 5,10-methylenetetrahydrofolate reductase 956231 957106
 NMB0944 5-methyltetrahydropteroyltriglutamate-homocysteine
 methyltransferase 957247 959520
 NMB0945 hypothetical protein 959535 959696
 NMB0946 peroxiredoxin 2 family protein/glutaredoxin 959802 960536
 NMB0947 lipamide dehydrogenase, putative 960788 962188
 NMB0948 succinate dehydrogenase, cytochrome b556 subunit 962470 962844
 NMB0949 succinate dehydrogenase, hydrophobic membrane anchor protein
 962841 963179
 NMB0950 succinate dehydrogenase, flavoprotein subunit 963185 964945
 NMB0951 succinate dehydrogenase, iron-sulfur protein 965068 965772
 NMB0952 conserved hypothetical protein 965779 966024
 NMB0953 hypothetical protein 966024 966104
 NMB0954 citrate synthase 966139 967419
 NMB0955 2-oxoglutarate dehydrogenase, E1 component 967627 970452
 NMB0956 2-oxoglutarate dehydrogenase, E2 component, dihydrolipoamide
 succinyltransferase 970555 971733
 NMB0957 2-oxoglutarate dehydrogenase, E3 component, lipamide
 dehydrogenase 972101 973531
 NMB0958 hypothetical protein 973659 973943
 NMB0959 succinyl-CoA synthetase, beta subunit 974045 975208
 NMB0960 succinyl-CoA synthetase, alpha subunit 975222 976109
 NMB0961 funZ protein 978267 976675
 NMB0962 excinuclease ABC, subunit A 981150 978304
 NMB0963 phosphatidylserine decarboxylase precursor-related protein 981305
 982099
 NMB0964 TonB-dependent receptor 985503 983230
 NMB0965 hypothetical protein 985832 985564

Appendix B

-17-

NMB0966 para-aminobenzoate synthase glutamine amidotransferase component
II 985925 986512

NMB0967 anthranilate phosphoribosyltransferase 986579 987634

NMB0968 hypothetical protein 987644 987729

NMB0969 hypothetical protein 988030 987792

NMB0970 conserved hypothetical protein, FRAMESHIFT 988106 989527

NMB0971 hypothetical protein 989493 989780

NMB0972 hypothetical protein 989788 989982

NMB0973 hypothetical protein 989993 990274

NMB0974 hypothetical protein 990284 990559

NMB0975 hypothetical protein 990690 991004

NMB0976 TspB-related protein 990991 991383

NMB0977 modulator of drug activity B, putative 991676 992146

NMB0978 NAD(P) transhydrogenase, beta subunit 993742 992360

NMB0979 hypothetical protein 994205 993825

NMB0980 NAD(P) transhydrogenase, alpha subunit 995750 994212

NMB0981 phosphoserine phosphatase 996040 996870

NMB0982 chloride channel protein-related protein 997018 998157

NMB0983 phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP
cyclohydrolase 998324 999901

NMB0984 transposase, putative, degenerate 1000517 1001457

NMB0985 El6-related protein 1001522 1002016

NMB0986 hypothetical protein 1001997 1002425

NMB0987 N-acetylmuramoyl-L-alanine amidase, putative 1002736 1003278

NMB0988 hypothetical protein 1003278 1003478

NMB0989 hypothetical protein 1003484 1003645

NMB0990 hypothetical protein 1003859 1004260

NMB0991 IS1106 transposase 1005417 1004308

NMB0992 adhesin 1007326 1005554

NMB0993 rubredoxin 1009428 1009261

NMB0994 acyl-CoA dehydrogenase family protein 1011202 1010114

NMB0995 macrophage infectivity potentiator-related protein 1012020 1011340

NMB0996 hypothetical protein 1012411 1012043

NMB0997 D-lactate dehydrogenase 1014397 1012709

NMB0998 oxidoreductase, putative 1014921 1018751

NMB0999 NifR3/SMM1 family protein 1018935 1019933

NMB1000 IS1106 transposase, putative FRAMESHIFT 1020537 1021551

NMB1001 integrase protein, degenerate 1023183 1022614

NMB1002 hypothetical protein 1024370 1023498

NMB1003 hypothetical protein 1024711 1024418

NMB1004 hypothetical protein 1024962 1024720

NMB1005 hypothetical protein 1025179 1024958

NMB1006 hypothetical protein 1025360 1025184

NMB1007 transcriptional regulator 1025451 1025819

NMB1008 hypothetical protein 1025824 1026444

NMB1009 conserved hypothetical protein 1026440 1026631

NMB1010 hypothetical protein 1026658 1027218

NMB1011 hypothetical protein 1027252 1028196

NMB1012 hypothetical protein 1028284 1028784

NMB1013 hypothetical protein 1028801 1028971

NMB1014 conserved hypothetical protein 1029045 1029635

NMB1015 IS150 transposase, putative FRAMESHIFT 1029653 1030443

NMB1016 conserved hypothetical protein 1031794 1031192

NMB1017 sulfate ABC transporter, periplasmic sulfate-binding protein
1033574 1032522

NMB1018 conserved hypothetical protein 1034162 1033683

NMB1019 phosphoribosylaminoimidazole carboxylase, ATPase subunit 1035345
1034212

NMB1020 hypothetical protein 1035887 1035345

NMB1021 anthranilate synthase component I 1037359 1035887

NMB1022 transposase, IS30 family 1038444 1037482

NMB1023 conserved hypothetical protein 1039543 1038587

NMB1024 conserved hypothetical protein 1040502 1039639

NMB1025 conserved hypothetical protein 1040896 1040537

Appendix B

-18-

NMB1026 conserved hypothetical protein 1040971 1041447
 NMB1027 dnaJ protein, truncation 1041473 1042192
 NMB1028 conserved hypothetical protein 1042197 1043069
 NMB1029 aspartate ammonia-lyase 1044541 1043147
 NMB1030 conserved hypothetical protein 1045565 1045005
 NMB1031 3-isopropylmalate dehydrogenase 1046798 1045731
 NMB1032 type II restriction enzyme NlaIV 1047563 1046835
 NMB1033 modification methylase NlaIV 1048850 1047582
 NMB1034 3-isopropylmalate dehydratase, small subunit 1049666 1049028
 NMB1035 hypothetical protein 1049982 1049731
 NMB1036 3-isopropylmalate dehydratase, large subunit 1051488 1050082
 NMB1037 glutamate--cysteine ligase 1051748 1053094
 NMB1038 DNA repair protein RadC 1053220 1053894
 NMB1039 conserved hypothetical protein 1053970 1054692
 NMB1040 hypothetical protein 1054848 1056125
 NMB1041 GTP-binding protein 1056133 1057308
 NMB1042 cation transport ATPase, E1-E2 family 1057308 1059776
 NMB1043 hypothetical protein 1059940 1060142
 NMB1044 ferredoxin--NADP reductase 1061316 1060543
 NMB1045 hypothetical protein 1062298 1061507
 NMB1046 threonine synthase 1063753 1062347
 NMB1047 hypothetical protein 1064197 1063829
 NMB1048 hypothetical protein 1065918 1064452
 NMB1049 transcriptional regulator, putative 1066174 1067085
 NMB1050 transposase, IS30 family 1068512 1067550
 NMB1051 ABC transporter, ATP-binding protein 1070544 1068637
 NMB1052 dedA protein 1071207 1070566
 NMB1053 class 5 outer membrane protein 1072189 1071374
 NMB1054 IS1106 transposase, degenerate 1073920 1072988
 NMB1055 serine hydroxymethyltransferase 1075474 1074227
 NMB1056 hypothetical protein 1075753 1075544
 NMB1057 gamma-glutamyltranspeptidase 1077776 1075959
 NMB1058 conserved hypothetical protein FRAMESHIFT 1078161 1077902
 NMB1059 conserved hypothetical protein 1078505 1078720
 NMB1060 fructose-1,6-bisphosphatase 1079840 1078869
 NMB1061 conserved hypothetical protein 1080931 1080089
 NMB1062 conserved hypothetical protein 1081610 1081011
 NMB1063 dihydroneopterin aldolase 1081666 1082019
 NMB1064 conserved hypothetical protein 1082056 1082589
 NMB1065 crcB protein 1083465 1083109
 NMB1066 hypothetical protein 1084174 1083497
 NMB1067 cell division protein FtsK 1084339 1087380
 NMB1068 gamma-glutamyl phosphate reductase 1088870 1087611
 NMB1069 glutamate 5-kinase 1089992 1088886
 NMB1070 2-isopropylmalate synthase 1090477 1092027
 NMB1071 conserved hypothetical protein 1092125 1092784
 NMB1072 prolipoprotein diacylglycerol transferase 1093721 1092873
 NMB1073 conserved hypothetical protein 1094922 1093795
 NMB1074 acetylglutamate kinase 1095092 1095985
 NMB1075 conserved hypothetical protein 1098302 1097637
 NMB1076 DnaA-related protein 1098967 1098302
 NMB1077 ABC transporter, ATP-binding protein, truncation 1099623 1099075
 NMB1078 transcriptional regulator, UmuD/LexA family 1100312 1099875
 NMB1079 hypothetical protein 1100580 1100425
 NMB1080 ner protein FRAMESHIFT 1100802 1101061
 NMB1081 bacteriophage transposase 1101126 1103108
 NMB1082 hypothetical protein 1103120 1103317
 NMB1083 bacteriophage DNA transposition protein B, putative 1103481
 1104650
 NMB1084 hypothetical protein 1104655 1105173
 NMB1085 N-acetylmuramoyl-L-alanine amidase, putative 1105319 1105861
 NMB1086 hypothetical protein 1106234 1106467
 NMB1087 hypothetical protein 1106758 1107060
 NMB1088 conserved hypothetical protein 1107278 1107111

Appendix B

-19-

NMB1089 hypothetical protein 1107506 1107841
 NMB1090 hypothetical protein 1107856 1108119
 NMB1091 hypothetical protein 1108119 1108313
 NMB1092 hypothetical protein 1108319 1108822
 NMB1093 hypothetical protein 1109412 1108825
 NMB1094 hypothetical protein 1109497 1111044
 NMB1095 conserved hypothetical protein 1111047 1112612
 NMB1096 conserved hypothetical protein 1112602 1113894
 NMB1097 cryptic Mu-phage G protein, putative 1114007 1114419
 NMB1098 I protein, putative 1114653 1115711
 NMB1099 transposase, IS30 family 1116767 1115805
 NMB1100 hypothetical protein 1116795 1117274
 NMB1101 conserved hypothetical protein 1117277 1117696
 NMB1102 hypothetical protein 1117746 1118336
 NMB1103 hypothetical protein 1118336 1118530
 NMB1104 phage sheath protein 1118536 1119942
 NMB1105 hypothetical protein 1120010 1120384
 NMB1106 hypothetical protein 1120391 1120753
 NMB1107 hypothetical protein 1121610 1121011
 NMB1108 hypothetical protein 1121780 1123933
 NMB1109 phage virion protein, putative 1123936 1125264
 NMB1110 tail protein, 43 kDa 1125257 1126399
 NMB1111 baseplate assembly protein V, putative 1126399 1127064
 NMB1112 conserved hypothetical protein 1127168 1127512
 NMB1113 conserved hypothetical protein FRAMESHIFT 1127529 1128580
 NMB1114 conserved hypothetical protein 1128580 1129137
 NMB1115 tail fibre protein, putative 1129151 1131121
 NMB1116 hypothetical protein 1131560 1132084
 NMB1117 hypothetical protein 1132350 1132204
 NMB1118 conserved hypothetical protein 1132762 1132478
 NMB1119 conserved hypothetical protein 1132842 1133444
 NMB1120 hypothetical protein 1133426 1133719
 NMB1121 conserved hypothetical protein 1133719 1133925
 NMB1122 ABC transporter, ATP-binding protein FRAMESHIFT 1135181 1134041
 NMB1198 conserved hypothetical protein 1199352 1198465
 NMB1161 hypothetical protein 1167620 1167426
 NMB1162 hypothetical protein 1168307 1167663
 NMB1163 hypothetical protein 1168675 1168307
 NMB1164 hypothetical protein 1169353 1168685
 NMB1165 oxidoreductase, short chain dehydrogenase/reductase family 1170237
 1169521
 NMB1128 conserved hypothetical protein 1139597 1138287
 NMB1167 hypothetical protein 1171869 1171666
 NMB1168 phytoene synthase, putative 1172903 1172034
 NMB1131 chaperone protein HscA 1142897 1141038
 NMB1132 hypothetical protein 1143630 1142977
 NMB1171 conserved hypothetical protein / ankyrin-related protein 1176464
 1175706
 NMB1172 ferredoxin, 2Fe-2S type 1176860 1176522
 NMB1173 hypothetical protein 1177278 1177138
 NMB1136 hypothetical protein 1146017 1145337
 NMB1175 conserved hypothetical protein 1178247 1178053
 NMB1176 conserved hypothetical protein 1178719 1178321
 NMB1139 acetyl-CoA carboxylase, carboxyl transferase alpha subunit 1147851
 1146895
 NMB1140 mesJ protein FRAMESHIFT 1149229 1147948
 NMB1179 RNA methyltransferase, TrmH family 1182124 1181516
 NMB1180 hypothetical protein 1182411 1182178
 NMB1181 hypothetical protein 1182945 1182583
 NMB1182 hypothetical protein 1183262 1182960
 NMB1145 UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-
 diamino pimelate ligase 1152664 1151291
 NMB1146 biotin synthetase 1153923 1152874
 NMB1185 hypothetical protein 1186675 1186043

Appendix B

-20-

NMB1148 hypothetical protein 1154845 1154693
 NMB1187 hypothetical protein 1187052 1186912
 NMB1150 dihydroxy-acid dehydratase 1157144 1155288
 NMB1189 sulfite reductase hemoprotein, beta-component 1191122 1189356
 NMB1190 sulfite reductase (NADPH) flavoprotein, alpha component 1192963 1191152
 NMB1153 sulfate adenyllyltransferase, subunit 1 1162210 1160927, plasmid protein
 NMB1192 sulfate adenyllyltransferase, subunit 2 1195208 1194288
 NMB1155 phosphoadenosine phosphosulfate reductase 1163950 1163213
 NMB1194 siroheme synthase 1197448 1196000
 NMB1195 hypothetical protein 1197732 1197577
 NMB1158 nickel-dependent hydrogenase, b-type cytochrome subunit 1166365 1165712
 NMB1197 conserved hypothetical protein 1199352 1198465
 NMB1199 GTP-binding protein TypA 1201433 1199625
 NMB1200 ribonuclease II family protein 1202272 1204644
 NMB1201 IMP dehydrogenase 1206449 1204989
 NMB1202 hypothetical protein 1207237 1206779
 NMB1203 protein-Pil uridylyltransferase 1209886 1207331
 NMB1204 transcriptional regulator 1210255 1209938
 NMB1205 hypothetical protein 1210426 1210283
 NMB1206 bacterioferritin B 1211053 1210583
 NMB1207 bacterioferritin A 1211545 1211084
 NMB1208 hypothetical protein 1211610 1211810
 NMB1209 hypothetical protein 1211900 1212100
 NMB1210 toxin-activating protein, putative 1212121 1212585
 NMB1211 hypothetical protein 1212984 1212745
 NMB1212 hypothetical protein 1213319 1212984
 NMB1213 hypothetical protein 1213678 1213319
 NMB1214 hemagglutinin/hemolysin-related protein 1220496 1213678
 NMB1215 hypothetical protein 1220814 1220659
 NMB1216 lipoleic acid synthetase 1221989 1221009
 NMB1217 lipoleic acid synthetase B 1222554 1221985
 NMB1218 conserved hypothetical protein 1222882 1222610
 NMB1219 transporter, putative 1223067 1224134
 NMB1220 stomatin/Mec-2 family protein 1225281 1224337
 NMB1221 hypothetical protein 1225703 1225299
 NMB1222 uracil-DNA glycosylase 1225784 1226440
 NMB1223 site-specific DNA methylase, degenerate 1226520 1229028
 NMB1224 hypothetical protein 1229552 1229154
 NMB1225 hypothetical protein 1230112 1229600
 NMB1226 ABC transporter, ATP-binding protein 1232500 1230581
 NMB1227 conserved hypothetical protein 1232972 1232580
 NMB1228 homoserine dehydrogenase 1233145 1234449
 NMB1229 hypothetical protein 1234445 1234876
 NMB1230 DNA-binding protein HU-beta 1235207 1234941
 NMB1231 ATP-dependent protease La 1237851 1235392
 NMB1232 conserved hypothetical protein 1238285 1239202
 NMB1233 exodeoxyribonuclease V, alpha subunit 1240978 1239236
 NMB1234 ABC transporter, ATP-binding protein 1241741 1241049
 NMB1235 conserved hypothetical protein 1242981 1241737
 NMB1236 hypothetical protein 1243186 1243461
 NMB1237 recombination protein RecR 1244140 1243523
 NMB1238 peptidyl-prolyl cis-trans isomerase-related protein 1245742 1244207
 NMB1239 conserved hypothetical protein 1246176 1245805
 NMB1240 ABC transporter, ATP-binding protein 1246326 1247951
 NMB1241 tRNA nucleotidyltransferase 1248026 1249276
 NMB1242 hypothetical protein 1249502 1249807
 NMB1243 Holliday junction DNA helicase RuvB 1249892 1250920
 NMB1244 ribulose-phosphate 3-epimerase 1251674 1250949
 NMB1245 hypothetical protein 1252367 1252035
 NMB1246 conserved hypothetical protein 1253294 1252434

Appendix B

-21-

NMB1247 riboflavin synthase, alpha subunit 1254006 1253305
 NMB1248 molybdopterin-guanine dinucleotide biosynthesis protein A
 FRAMESHIFT 1254659 1254085
 NMB1249 nitrate/nitrite sensory protein NarX, putative 1254901 1256670
 NMB1250 transcriptional regulator, LuxR family 1256670 1257323
 NMB1251 transposase, IS30 family 1258731 1257769
 NMB1252 phosphoribosylformylglycinamide cyclo-ligase 1259914 1258883
 NMB1253 hypothetical protein 1260672 1261346
 NMB1254 GTP cyclohydrolase II 1261342 1261932
 NMB1255 glycosyl transferase, degenerate 1262256 1263263
 NMB1256 GTP cyclohydrolase II/3,4-dihydroxy-2-butanone-4-phosphate
 synthase 1263728 1264816
 NMB1257 site-specific DNA methylase, degenerate 1265357 1265130
 NMB1258 conserved hypothetical protein 1267046 1265739
 NMB1259 transposase, IS30 family 1267584 1268546
 NMB1260 type III restriction-modification system EcoPI enzyme, subunit res
 1271565 1268629
 NMB1261 type III restriction-modification system EcoPI enzyme, subunit mod
 POINT MUTATION FRAMESHIFT 1273661 1271581
 NMB1262 peptidyl-prolyl cis-trans isomerase 1274334 1273780
 NMB1263 CobW-related protein 1275316 1274402
 NMB1264 conserved hypothetical protein 1275771 1275502
 NMB1265 conserved hypothetical protein 1276061 1275771
 NMB1266 zinc uptake regulation protein, putative 1276582 1276109
 NMB1267 low molecular weight protein tyrosine-phosphatase 1277108 1276656
 NMB1268 conserved hypothetical protein 1278348 1277236
 NMB1269 hypothetical protein 1279559 1278465
 NMB1270 conserved hypothetical protein 1281272 1279644
 NMB1271 mercury transport periplasmic protein, putative 1281584 1281375
 NMB1272 hypothetical protein 1281765 1281625
 NMB1273 alginate O-acetylation protein AlgI, putative 1282215 1283648
 NMB1274 hypothetical protein 1283662 1284642
 NMB1275 hypothetical protein 1284642 1286083
 NMB1276 long-chain-fatty-acid--CoA ligase 1286122 1287672
 NMB1277 transporter, BOC family 1289792 1287768
 NMB1278 site-specific recombinase 1290081 1292084
 NMB1279 membrane-bound lytic murein transglycosylase B, putative 1293319
 1292213
 NMB1280 very long chain acyl-CoA dehydrogenase-related protein 1294948
 1293524
 NMB1281 transcription-repair coupling factor 1295133 1299269
 NMB1282 aspartate 1-decarboxylase 1299421 1299801
 NMB1283 2-dehydro-3-deoxyphosphocetate aldolase 1299826 1300665
 NMB1284 hypothetical protein 1300683 1301120
 NMB1285 enolase 1301171 1302454
 NMB1286 conserved hypothetical protein 1302471 1302746
 NMB1287 ferredoxin, putative 1303080 1302793
 NMB1288 ribonucleoside-diphosphate reductase, beta subunit 1304479 1303328
 NMB1289 type II restriction enzyme, putative 1305706 1304522
 NMB1290 C-5 cytosine-specific DNA-methylase 1306712 1305702
 NMB1291 ribonucleoside-diphosphate reductase, alpha subunit 1309049
 1306773
 NMB1292 hypothetical protein 1309394 1309209
 NMB1293 hypothetical protein 1309563 1309886
 NMB1294 1-acyl-sn-glycerol-3-phosphate acyltransferase 1310967 1310203
 NMB1295 formamidopyrimidine-DNA glycosylase 1311882 1311058
 NMB1296 hypothetical protein 1312599 1311937
 NMB1297 membrane-bound lytic murein transglycosylase D 1312778 1314751
 NMB1298 ribosomal small subunit pseudouridine synthase A 1314822 1315511
 NMB1299 sodium- and chloride-dependent transporter, degenerate 1316091
 1317454
 NMB1300 cytidylate kinase 1317701 1318354
 NMB1301 30S ribosomal protein S1 1318513 1320195
 NMB1302 integration host factor, beta subunit 1320209 1320520

Appendix B

-22-

NMB1303 transcriptional regulator, MerR family 1321281 1320877
 NMB1304 alcohol dehydrogenase, class III 1321402 1322535
 NMB1305 esterase, putative 1322547 1323371
 NMB1306 conserved hypothetical protein 1323765 1324913
 NMB1307 nucleoside diphosphate kinase 1324975 1325397
 NMB1308 conserved hypothetical protein 1325543 1326634
 NMB1309 fimbrial biogenesis and twitching motility protein, putative
 1326640 1327398
 NMB1310 gcpE protein 1327417 1328679
 NMB1311 hypothetical protein 1328970 1328737
 NMB1312 ATP-dependent Clp protease, proteolytic subunit 1329655 1329128
 NMB1313 trigger factor 1331148 1329838
 NMB1314 cell division protein FtsK 1333791 1331356
 NMB1315 uracil permease 1334014 1335222
 NMB1316 hypothetical protein 1335289 1335726
 NMB1317 hypothetical protein 1335865 1336266
 NMB1318 CDP-diacylglycerol--serine O-phosphatidyltransferase 1336343
 1337086
 NMB1319 conserved hypothetical protein 1337090 1337860
 NMB1320 50S ribosomal protein L9 1338540 1338091
 NMB1321 30S ribosomal protein S18 1338787 1338560
 NMB1322 primosomal replication protein n, putative 1339096 1338797
 NMB1323 30S ribosomal protein S6 1339465 1339100
 NMB1324 thioredoxin reductase 1340571 1339624
 NMB1325 cation transport ATPase, E1-E2 family 1340710 1342869
 NMB1326 excinuclease ABC, subunit C 1342969 1344819
 NMB1327 conserved hypothetical protein 1345045 1346445
 NMB1328 conserved hypothetical protein 1346570 1347283
 NMB1329 hypothetical protein 1347649 1347840
 NMB1330 hypothetical protein 1348276 1347917
 NMB1331 excinuclease ABC, subunit B 1350416 1348392
 NMB1332 carboxy-terminal peptidase 1352229 1350748
 NMB1333 conserved hypothetical protein 1354146 1352359
 NMB1334 hypothetical protein 1354238 1354471
 NMB1335 creA protein 1354474 1355031
 NMB1336 conserved hypothetical protein 1355036 1355581
 NMB1337 conserved hypothetical protein 1355577 1356029
 NMB1338 isomerase, putative 1356698 1356045
 NMB1339 prolyl-tRNA synthetase 1358473 1356764
 NMB1340 hypothetical protein 1358924 1359151
 NMB1341 pyruvate dehydrogenase, E1 component 1359167 1361827
 NMB1342 pyruvate dehydrogenase, E2 component, dihydrolipoamide
 acetyltransferase FRAMESHIFT 1361979 1363583
 NMB1343 hypothetical protein 1363680 1364114
 NMB1344 pyruvate dehydrogenase, E3 component, lipoamide dehydrogenase
 1364135 1365916
 NMB1345 hypothetical protein 1367830 1366283
 NMB1346 TonB-dependent receptor, putative FRAMESHIFT 1369731 1367957
 NMB1347 extragenic suppressor protein SuhB 1370786 1370004
 NMB1348 RNA methylase, putative 1371030 1371842
 NMB1349 hypothetical protein 1371906 1372760
 NMB1350 hypothetical protein 1372967 1373305
 NMB1351 fmu and fmw protein, putative 1373656 1374909
 NMB1352 hypothetical protein 1375272 1375703
 NMB1353 aldehyde dehydrogenase family protein 1377097 1375757
 NMB1354 conserved hypothetical protein 1377755 1377105
 NMB1355 glutamyl-tRNA (Gln) amidotransferase subunit C, putative 1377906
 1378193
 NMB1356 Glu-tRNA(Gln) amidotransferase, subunit A 1378259 1379701
 NMB1357 conserved hypothetical protein 1379701 1380630
 NMB1358 Glu-tRNA(Gln) amidotransferase, subunit B 1380676 1382103
 NMB1359 CDP-6-deoxy-delta-3,4-glucoseen reductase, putative 1382318
 1383325
 NMB1360 pyridoxamine 5-phosphate oxidase 1384090 1383461

Appendix B

-23-

NMB1361 conserved hypothetical protein 1384312 1385361
 NMB1362 oxalate/formate antiporter, putative 1386974 1385436
 NMB1363 exodeoxyribonuclease, large subunit 1388622 1387270
 NMB1364 NH(3)-dependent NAD⁺ synthetase NadE, putative 1388819 1389637
 NMB1365 conserved hypothetical protein 1390183 1389713
 NMB1366 thioredoxin 1390481 1390810
 NMB1367 conserved hypothetical protein 1391930 1390869
 NMB1368 ATP-dependent RNA helicase, putative 1392141 1393526
 NMB1369 hypothetical protein 1394572 1394021
 NMB1370 hypothetical protein 1395217 1394860
 NMB1371 acetylornithine aminotransferase 1395561 1396754
 NMB1372 ATP-dependent Clp protease, ATP-binding subunit ClpX 1398104 1396863
 NMB1373 ribosome-binding factor A 1398295 1398663
 NMB1374 tRNA pseudouridine synthase B 1398699 1399619
 NMB1375 modification methylase, putative FRAMESHIFT 1399839 1401945
 NMB1376 conserved hypothetical protein POINT MUTATION 1401938 1404712
 NMB1377 L-lactate dehydrogenase 1406036 1404867
 NMB1378 conserved hypothetical protein 1406327 1406770
 NMB1379 nifS protein 1406802 1408013
 NMB1380 nifU protein 1408280 1408663
 NMB1381 HesB/YadR/YfhF family protein 1408693 1409070
 NMB1382 conserved hypothetical protein 1409254 1409036
 NMB1383 chaperone protein HscB 1409336 1409833
 NMB1384 DNA gyrase subunit A 1409934 1412681
 NMB1385 IS1016 family transposase, degenerate 1412841 1413241
 NMB1386 transposase, putative FRAMESHIFT 1413303 1413955
 NMB1387 hypothetical protein 1414840 1414292
 NMB1388 glucose-6-phosphate isomerase 1416500 1414857
 NMB1389 RpiR/YebK/YfhH family protein 1417469 1416624
 NMB1390 glucokinase 1418505 1417522
 NMB1391 oxidoreductase, Sol/DevB family 1419181 1418489
 NMB1392 glucose-6-phosphate 1-dehydrogenase 1420906 1419464
 NMB1393 phosphogluconate dehydratase 1421474 1423306
 NMB1394 4-hydroxy-2-oxoglutarate aldolase/2-dehydro-3-deoxyphosphogluconate aldolase 1423490 1424125
 NMB1395 alcohol dehydrogenase, zinc-containing 1425427 1424390
 NMB1396 A/G-specific adenine glycosylase 1425581 1426627
 NMB1397 hypothetical protein 1426793 1426972
 NMB1398 Cu-Zn-superoxide dismutase 1427047 1427604
 NMB1399 IS1106 transposase 1429146 1428175
 NMB1400 ABC transporter family protein 1431631 1429406
 NMB1401 IS1016C2 transposase 1432983 1432447
 NMB1402 hypothetical protein 1433320 1433751
 NMB1403 FrpA/C-related protein 1433795 1433983
 NMB1404 hypothetical protein 1434021 1434746
 NMB1405 FrpA/C-related protein 1434763 1435962
 NMB1406 hypothetical protein 1436396 1436755
 NMB1407 FrpA-related protein, degenerate 1436755 1437881
 NMB1408 hypothetical protein 1437960 1438451
 NMB1409 FrpA/C-related protein 1438582 1439007
 NMB1410 hypothetical protein 1439247 1439783
 NMB1411 IS1016C2 transposase 1440610 1439960
 NMB1412 FrpC operon protein 1441216 1442022
 NMB1413 IS1016 family transposase, putative FRAMESHIFT 1442715 1442132
 NMB1414 FrpC operon protein 1442798 1443568
 NMB1415 iron-regulated protein FrpC 1443588 1449074
 NMB1416 aminopeptidase N 1452022 1449422
 NMB1417 conserved hypothetical protein 1452947 1452156
 NMB1418 HtrB/MsbB family protein 1454563 1453697
 NMB1419 crossover junction endodeoxyribonuclease RuvC 1455150 1454617
 NMB1420 factor-for-inversion stimulation protein Fis, putative 1455392 1455156
 NMB1421 nifR3 protein 1456432 1455425

Appendix B

-24-

NMB1422 ATP-dependent RNA helicase, putative 1456798 1458168
 NMB1423 conserved hypothetical protein 1458746 1459870
 NMB1424 hypothetical protein 1459903 1460928
 NMB1425 lysyl-tRNA synthetase, heat inducible 1462560 1461052
 NMB1426 hypothetical protein 1463968 1462718
 NMB1427 hypothetical protein 1464208 1464032
 NMB1428 aminopeptidase, putative 1464426 1466219
 NMB1429 outer membrane protein PorA 1468209 1467034
 NMB1430 transcription elongation factor GreA 1470964 1470491
 NMB1431 hypothetical protein 1471298 1471050
 NMB1432 3-phosphoshikimate 1-carboxyvinyltransferase 1471360 1472658
 NMB1433 conserved hypothetical protein FRAMESHIFT 1473237 1472707
 NMB1434 cardiolipin synthetase family protein 1474971 1473448
 NMB1435 drug resistance translocase family protein 1476489 1475086
 NMB1436 conserved hypothetical protein 1476774 1477550
 NMB1437 conserved hypothetical protein 1477550 1478248
 NMB1438 conserved hypothetical protein 1478248 1479699
 NMB1439 phosphoribosylaminoimidazole carboxylase, catalytic subunit 1480370 1479888
 NMB1440 hypothetical protein 1481131 1480421
 NMB1441 O-methyltransferase, putative 1481799 1481134
 NMB1442 mismatch repair protein MutL 1482139 1484112
 NMB1443 DNA polymerase III, subunits gamma and tau 1484210 1486321
 NMB1444 conserved hypothetical protein 1486404 1486736
 NMB1445 recA protein 1489556 1488513
 NMB1446 3-dehydroquinate dehydratase 1489810 1490571
 NMB1447 ATP-dependent DNA helicase Rep 1490594 1492606
 NMB1448 DNA-damage-inducible protein P 1493734 1492781
 NMB1449 TonB-dependent receptor POINT MUTATION 1496967 1493881
 NMB1450 ferredoxin--NADP reductase 1497241 1498017
 NMB1451 DNA polymerase III, epsilon subunit 1499643 1498234
 NMB1452 conserved hypothetical protein 1500459 1501595
 NMB1453 hypothetical protein 1502335 1501847
 NMB1454 ferredoxin, 4Fe-4S bacterial type 1503891 1502398
 NMB1455 hypothetical protein 1504075 1503959
 NMB1456 hypothetical protein 1504347 1504153
 NMB1457 transketolase 1504419 1506395
 NMB1458 fumarate hydratase, class II 1506547 1507932
 NMB1459 conserved hypothetical protein 1508923 1508003
 NMB1460 single-strand binding protein 1509972 1509451
 NMB1461 drug resistance translocase family protein 1511361 1509979
 NMB1462 transglycosylase, putative 1512092 1511472
 NMB1463 IS1106 transposase, degenerate 1512998 1512596
 NMB1464 conserved hypothetical protein 1513541 1513053
 NMB1465 opacity protein FRAMESHIFT 1515309 1514483
 NMB1466 conserved hypothetical protein 1515639 1516367
 NMB1467 exopolyphosphatase 1516487 1517992
 NMB1468 hypothetical protein 1518527 1518207
 NMB1469 hypothetical protein 1518607 1518527
 NMB1470 hypothetical protein 1519392 1518850
 NMB1471 tryptophanyl-tRNA synthetase 1520471 1519464
 NMB1472 clpB protein 1520732 1523308
 NMB1473 aminotransferase, class I 1524612 1523401
 NMB1474 4-oxalocrotonate tautomerase, putative 1524910 1524704
 NMB1475 conserved hypothetical protein 1525255 1526058
 NMB1476 glutamate dehydrogenase, NAD-specific 1527384 1526122
 NMB1477 hypothetical protein 1527562 1527396
 NMB1478 phosphoglycolate phosphatase FRAMESHIFT 1527786 1528489
 NMB1479 regulatory protein RecX 1528560 1529018
 NMB1480 hypothetical protein 1529095 1529253
 NMB1481 hypothetical protein 1529262 1529393
 NMB1482 acyl CoA thioester hydrolase family protein 1529409 1529888
 NMB1483 lipoprotein NlpD, putative 1531499 1530255
 NMB1484 stationary-phase survival protein SurE 1532501 1531758

Appendix B

-25-

NMB1485 conserved hypothetical protein 1534074 1532521
 NMB1486 hypothetical protein 1534263 1534126
 NMB1487 fimbrial assembly protein 1535230 1534445
 NMB1488 succinate-semialdehyde dehydrogenase (NADP+) 1536772 1535342
 NMB1489 hypothetical protein 1537259 1537750
 NMB1490 hypothetical protein 1538345 1537917
 NMB1491 hypothetical protein 1538785 1538699
 NMB1492 hypothetical protein 1538860 1538795
 NMB1493 carbon starvation protein A 1538892 1540970
 NMB1494 conserved hypothetical protein 1540963 1541154
 NMB1495 hypothetical protein 1541371 1541562
 NMB1496 conserved hypothetical protein 1541673 1542230
 NMB1497 TonB-dependent receptor 1543234 1545996
 NMB1498 aspartokinase, alpha and beta subunits 1549220 1548006
 NMB1499 ribonuclease PH 1550148 1549423
 NMB1500 conserved hypothetical protein 1550694 1550233
 NMB1501 ResA/MoeB/ThiF family protein 1550911 1551684
 NMB1502 hypothetical protein 1551825 1552349
 NMB1503 hypothetical protein 1552608 1552814
 NMB1504 conserved hypothetical protein 1552706 1553557
 NMB1505 nicotinate phosphoribosyltransferase 1553601 1554806
 NMB1506 arginyl-tRNA synthetase 1554901 1556616
 NMB1507 hypothetical protein 1556714 1557070
 NMB1508 hypothetical protein 1557130 1558584
 NMB1509 amino acid ABC transporter, permease protein 1560344 1559601
 NMB1510 thermonuclease family protein 1561224 1560526
 NMB1511 ribose 5-phosphate isomerase A 1561934 1561266
 NMB1512 YgbB/YacN family protein 1562493 1562014
 NMB1513 conserved hypothetical protein 1563214 1562528
 NMB1514 DNA polymerase III, epsilon subunit 1563945 1563214
 NMB1515 transporter, putative 1565411 1564104
 NMB1516 fixS protein 1565589 1565404
 NMB1517 hypothetical protein 1565885 1565589
 NMB1518 acetate kinase 1566236 1567429
 NMB1519 thiol:disulfide interchange protein DsbD 1569752 1567950
 NMB1520 hypothetical protein 1570337 1569819
 NMB1521 phytoene synthase-related protein 1571249 1570425
 NMB1522 FKBP-type peptidyl-prolyl cis-trans isomerase SlyD 1571803 1571324
 NMB1523 hypothetical protein 1572276 1572569
 NMB1524 oxidoreductase, putative 1572682 1574046
 NMB1525 VirG-related protein FRAMESHIFT 1576262 1574233
 NMB1526 small major protein B 1577081 1576638
 NMB1527 ADP-heptose--LPS heptosyltransferase II 1578146 1577139
 NMB1528 methylated-DNA--protein-cysteine methyltransferase, putative 1579353 1578547
 NMB1529 conserved hypothetical protein FRAMESHIFT 1579597 1580409
 NMB1530 succinyl-diaminopimelate desuccinylase 1582228 1581086
 NMB1531 conserved hypothetical protein 1582961 1582344
 NMB1532 conserved hypothetical protein 1583504 1582998
 NMB1533 H.8 outer membrane protein 1584150 1583602
 NMB1534 hypothetical protein 1584287 1584150
 NMB1535 hypothetical protein 1584404 1584874
 NMB1536 preprotein translocase SecA subunit 1584984 1587731
 NMB1537 DNA primase 1587879 1589648
 NMB1538 RNA polymerase sigma factor RpoD 1589838 1591763
 NMB1539 IS1106 transposase 1591913 1592917
 NMB1540 lactoferrin-binding protein A 1597271 1594443
 NMB1541 lactoferrin-binding protein B 1599481 1597271
 NMB1542 hypothetical protein 1600504 1600722
 NMB1543 conserved hypothetical protein 1600871 1602082
 NMB1544 hypothetical protein 1602097 1602405
 NMB1545 hypothetical protein 1602412 1602609
 NMB1546 hypothetical protein 1602795 1603076
 NMB1547 hypothetical protein 1603107 1603406

Appendix B

-26-

NMB1548 tspB protein, putative 1603741 1605384
 NMB1549 hypothetical protein 1606176 1606325
 NMB1550 conserved hypothetical protein 1606332 1606613
 NMB1551 conserved hypothetical protein 1606617 1607717
 NMB1552 pilin gene inverting protein PivNM-1A 1608019 1608972
 NMB1553 transposase, truncation 1612022 1611708
 NMB1554 CTP synthase 1613884 1612253
 NMB1555 long-chain-fatty-acid--CoA ligase 1615666 1613999
 NMB1556 tRNA (5-methylaminomethyl-2-thiouridylylate)-methyltransferase
 1616840 1615740
 NMB1557 conserved hypothetical protein 1617439 1616969
 NMB1558 diacylglycerol kinase 1618115 1617735
 NMB1559 glutathione synthetase 1619386 1618430
 NMB1560 glutamyl-tRNA synthetase 1621164 1619479
 NMB1561 transcriptional regulator, DeoR family 1622049 1621279
 NMB1562 conserved hypothetical protein 1622994 1622095
 NMB1563 transcriptional regulator, GntR family 1623859 1623146
 NMB1564 conserved hypothetical protein 1624850 1624431
 NMB1565 hypothetical protein 1625639 1624971
 NMB1566 phosphoribosylglycinamide formyltransferase 1626281 1625658
 NMB1567 macrophage infectivity potentiator 1627206 1626391
 NMB1568 DNA polymerase holoenzyme chi subunit, putative 1627905 1627468
 NMB1569 aminopeptidase A/I, FRAMESHIFT 1629499 1627971
 NMB1570 conserved hypothetical protein 1629544 1630656
 NMB1571 conserved hypothetical protein 1630656 1631723
 NMB1572 aconitate hydratase 2 1631936 1634518
 NMB1573 ornithine carbamoyltransferase, catabolic 1634663 1635655
 NMB1574 ketol-acid reductoisomerase 1636895 1635885
 NMB1575 conserved hypothetical protein 1637268 1636978
 NMB1576 acetolactate synthase III, small subunit 1637826 1637338
 NMB1577 acetolactate synthase III, large subunit 1639564 1637840
 NMB1578 conserved hypothetical protein 1640685 1641335
 NMB1579 ATP phosphoribosyltransferase 1641417 1642067
 NMB1580 hypothetical protein 1642174 1643070
 NMB1581 histidinol dehydrogenase 1643070 1644356
 NMB1582 histidinol-phosphate aminotransferase 1644405 1645499
 NMB1583 imidazoleglycerol-phosphate dehydratase 1645499 1646413
 NMB1584 3-hydroxyacid dehydrogenase 1646511 1647377
 NMB1585 transcriptional regulator, MarR family 1647658 1648086
 NMB1586 hypothetical protein 1648100 1648963
 NMB1587 protease, putative 1650120 1649020
 NMB1588 CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase
 1651479 1650919
 NMB1589 hypothetical protein 1652036 1651797
 NMB1590 conserved hypothetical protein 1652675 1652343
 NMB1591 transcriptional regulator MtrA 1652804 1653706
 NMB1592 hypothetical protein 1653729 1654313
 NMB1593 conserved hypothetical protein 1654445 1655305
 NMB1594 spermidine/putrescine ABC transporter, periplasmic
 spermidine/putrescine-binding protein 1656479 1655352
 NMB1595 alanyl-tRNA synthetase 1656684 1659305
 NMB1596 hypothetical protein 1659348 1659551
 NMB1597 hypothetical protein 1659569 1659997
 NMB1598 hypothetical protein 1660094 1660282
 NMB1599 hypothetical protein 1660300 1660584
 NMB1600 hypothetical protein 1660624 1660878
 NMB1601 IS1106 transposase 1661075 1662079
 NMB1602 transposase, putative 1663112 1661997
 NMB1603 tellurite resistance protein, putative 1663289 1664230
 NMB1604 phosphoglycerate mutase 1664989 1664309
 NMB1605 topoisomerase IV subunit A 1665137 1667437
 NMB1606 sensor histidine kinase 1667460 1669033
 NMB1607 sigma-54 dependent response regulator 1669029 1669493
 NMB1608 conserved hypothetical protein 1669600 1670349

Appendix B

-27-

NMB1609 trans-sulfuration enzyme family protein 1672860 1671694
 NMB1610 hypothetical protein 1673766 1673008
 NMB1611 hypothetical protein 1673866 1674114
 NMB1612 amino acid ABC transporter, periplasmic amino acid-binding protein 1674169 1674972
 NMB1613 fumarate hydratase, class I 1675282 1676802
 NMB1614 Trk system potassium uptake protein TrkA 1676903 1678312
 NMB1615 hypothetical protein 1678758 1679018
 NMB1616 phosphomethylpyrimidine kinase 1679755 1680558
 NMB1617 tellurite resistance protein, putative 1681480 1680614
 NMB1618 ribonuclease HI 1681594 1682028
 NMB1619 conserved hypothetical protein 1682889 1683290
 NMB1620 conserved hypothetical protein 1683333 1684514
 NMB1621 glutathione peroxidase 1685113 1684583
 NMB1622 nitric oxide reductase 1687547 1685295
 NMB1623 major anaerobically induced outer membrane protein 1687918 1689087
 NMB1624 conserved hypothetical protein 1689215 1689967
 NMB1625 pilin gene inverting protein PivNM-1B 1691651 1690698
 NMB1626 conserved hypothetical protein 1693053 1691953
 NMB1627 conserved hypothetical protein 1693338 1693057
 NMB1628 tspB protein, putative 1695347 1693797
 NMB1629 Hypothetical protein 1695690 1695328
 NMB1630 hypothetical protein 1696057 1695758
 NMB1631 hypothetical protein 1696449 1696088
 NMB1632 hypothetical protein 1696752 1696555
 NMB1633 hypothetical protein 1697067 1696759
 NMB1634 conserved hypothetical protein 1698296 1697091
 NMB1635 hypothetical protein 1698662 1698444
 NMB1636 opacity protein FRAMESHIFT 1700231 1701047
 NMB1637 conserved hypothetical protein 1701808 1701254
 NMB1638 YbhX/YhjW/YijP/YjdB family protein 1703518 1701887
 NMB1639 hypothetical protein 1703921 1703595
 NMB1640 phosphoserine aminotransferase 1705027 1703924
 NMB1641 conserved hypothetical protein 1705374 1705820
 NMB1642 N utilization substance protein A 1705851 1707350
 NMB1643 translation initiation factor IF-2 1707365 1710250
 NMB1644 hypothetical protein 1711755 1710418
 NMB1645 hypothetical protein 1713169 1711832
 NMB1646 hemolysin, putative 1713312 1713935
 NMB1647 amino acid symporter, putative 1715420 1714005
 NMB1648 conserved hypothetical protein 1715747 1716472
 NMB1649 disulfide bond formation protein B 1717022 1716537
 NMB1650 leucine-responsive regulatory protein 1718177 1717716
 NMB1651 alanine racemase 1718502 1719557
 NMB1652 conserved hypothetical protein 1720979 1719627
 NMB1653 conserved hypothetical protein 1721266 1720997
 NMB1654 conserved hypothetical protein 1722129 1721395
 NMB1655 adenine specific methylase, putative 1723321 1722413
 NMB1656 hypothetical protein 1723454 1724044
 NMB1657 comE operon protein 1-related protein 1725327 1724713
 NMB1658 DNA/pantothenate metabolism flavoprotein 1731065 1732246
 NMB1659 guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase 1734472 1732319
 NMB1660 DNA-directed RNA polymerase, omega subunit 1734770 1734567
 NMB1661 guanylate kinase 1735446 1734832
 NMB1662 adenine phosphoribosyltransferase 1735607 1736170
 NMB1663 conserved hypothetical protein 1737007 1736222
 NMB1664 protease, putative 1737332 1738684
 NMB1665 conserved hypothetical protein 1739253 1738870
 NMB1666 hypothetical protein 1739498 1739253
 NMB1667 hypothetical protein 1740061 1739858
 NMB1668 hemoglobin receptor 1742596 1740224
 NMB1669 iron-starvation protein PgiA 1743420 1742794
 NMB1670 PgiA family protein 1743706 1745214

Appendix B

-28-

NMB1671 pqiB protein 1745210 1746868
 NMB1672 conserved hypothetical protein 1746871 1747386
 NMB1673 DNA-3-methyladenine glycosylase I, putative 1747393 1747941
 NMB1674 GDSL lipase family protein 1747934 1748572
 NMB1675 hypothetical protein 1748797 1749102
 NMB1676 glycine dehydrogenase (decarboxylating) 1749136 1751984
 NMB1677 cytochrome c5 1753288 1752452
 NMB1678 aromatic-amino-acid aminotransferase 1754906 1753716
 NMB1679 tRNA (uracil-5-)-methyltransferase 1756015 1754930
 NMB1680 chorismate synthase 1756162 1757259
 NMB1681 hypothetical protein 1757354 1757776
 NMB1682 topoisomerase IV subunit B 1759838 1757856
 NMB1683 MutT/nudix family protein 1760429 1759908
 NMB1684 seryl-tRNA synthetase 1760595 1761887
 NMB1685 D-lactate dehydrogenase 1762966 1761971
 NMB1686 peptide chain release factor 1 1764167 1763094
 NMB1687 conserved hypothetical protein 1765042 1764275
 NMB1688 L-asparaginase I 1766051 1765053
 NMB1689 dedA protein, putative 1767007 1766327
 NMB1690 phosphoglucosyltransferase/phosphomannomutase family protein 1768532 1767201
 NMB1691 dihydropteroate synthase 1769519 1768665
 NMB1692 chorismate mutase-related protein 1770552 1769662
 NMB1693 hypothetical protein 1770643 1772754
 NMB1694 conserved hypothetical protein 1774305 1772824
 NMB1695 hypothetical protein 1774424 1775401
 NMB1696 acyl carrier protein 1775800 1775558
 NMB1697 acyl carrier protein, putative 1776072 1775815
 NMB1698 acyltransferase, putative 1776827 1776072
 NMB1699 hypothetical protein 1777185 1776823
 NMB1700 hypothetical protein 1777345 1777707
 NMB1701 hypothetical protein 1777763 1778260
 NMB1702 3-oxoacyl-(acyl-carrier-protein) reductase 1778291 1779016
 NMB1703 3-oxoacyl-(acyl-carrier-protein) synthase II 1779013 1780260
 NMB1704 beta-1,4-glucosyltransferase 1780467 1781222
 NMB1705 alpha-1,2-N-acetylglucosamine transferase 1781226 1782287
 NMB1706 hypothetical protein 1782329 1782496
 NMB1707 sodium- and chloride-dependent transporter 1782677 1784011
 NMB1708 NosX-related protein 1784846 1784189
 NMB1709 thymidylate synthase 1785648 1784857
 NMB1710 glutamate dehydrogenase, NADP-specific 1786032 1787363
 NMB1711 transcriptional regulator, GntR family 1788280 1787504
 NMB1712 L-lactate permease-related protein 1788711 1789007
 NMB1713 transposase, IS30 family 1790361 1789399
 NMB1714 multidrug efflux pump channel protein 1791874 1790474
 NMB1715 multiple transferable resistance system protein MtrD 1795132 1791932
 NMB1716 membrane fusion protein 1796382 1795147
 NMB1717 transcriptional regulator MtrR 1796785 1797414
 NMB1718 hypothetical protein 1797953 1797699
 NMB1719 efflux pump component MtrF 1798240 1799805
 NMB1720 exodeoxyribonuclease V 125 kD polypeptide 1803085 1799879
 NMB1721 conserved hypothetical protein 1804596 1803190
 NMB1722 cytochrome C555 FRAMESHIFT 1804923 1804801
 NMB1723 cytochrome c oxidase, subunit III 1806129 1805035
 NMB1724 cytochrome c oxidase, subunit II 1806939 1806331
 NMB1725 cytochrome c oxidase, subunit I 1808411 1806969
 NMB1726 conserved hypothetical protein 1808726 1810471
 NMB1727 conserved hypothetical protein 1810539 1810964
 NMB1728 biopolymer transport protein ExbD 1812088 1811657
 NMB1729 biopolymer transport protein ExbB 1812753 1812094
 NMB1730 TonB protein 1813661 1812822
 NMB1731 conserved hypothetical protein 1813916 1814551
 NMB1732 transporter, putative 1815806 1815009

Appendix B

-29-

NMB1733 hypothetical protein 1816445 1815945
 NMB1734 glutaredoxin 1817423 1816785
 NMB1735 GTP pyrophosphokinase 1817566 1819776
 NMB1736 transposase, putative FRAMESHIFT 1820048 1820856
 NMB1737 secretion protein, putative 1822426 1821026
 NMB1738 secretion protein, putative 1823922 1822498
 NMB1739 hypothetical protein 1824158 1824508
 NMB1740 hypothetical protein 1824635 1825042
 NMB1741 conserved hypothetical protein FRAMESHIFT 1825116 1826455
 NMB1742 hypothetical protein 1826503 1826790
 NMB1743 hypothetical protein 1826798 1826992
 NMB1744 hypothetical protein 1827003 1827284
 NMB1745 hypothetical protein 1827294 1827569
 NMB1746 hypothetical protein 1827700 1827987
 NMB1747 tspB protein, putative 1828031 1829533
 NMB1748 conserved hypothetical protein 1829537 1829824
 NMB1749 conserved hypothetical protein 1829837 1830919
 NMB1750 pilin gene inverting protein PivNM-2 1831548 1832495
 NMB1751 transposase, degenerate 1833264 1832887
 NMB1752 conserved hypothetical protein FRAMESHIFT 1833772 1833299
 NMB1753 VapD-related protein 1834647 1835081
 NMB1754 cryptic plasmid protein A-related protein 1835182 1835084
 NMB1755 hypothetical protein 1835328 1835669
 NMB1756 hypothetical protein 1835980 1836171
 NMB1757 hypothetical protein 1836529 1836756
 NMB1758 hypothetical protein 1837008 1837217
 NMB1759 conserved hypothetical protein 1837403 1838764
 NMB1760 conserved hypothetical protein 1839128 1839631
 NMB1761 conserved hypothetical protein 1839797 1841047
 NMB1762 hemolysin activation protein HecB, putative 1843162 1841378
 NMB1763 toxin-activating protein, putative 1843675 1843220
 NMB1764 hypothetical protein 1844155 1843844
 NMB1765 hypothetical protein 1844466 1844170
 NMB1766 hypothetical protein 1845460 1844450
 NMB1767 hypothetical protein 1845945 1845532
 NMB1768 hemagglutinin/hemolysin-related protein 1853493 1845952
 NMB1769 IS1016 family transposase, putative truncation 1853631 1853822
 NMB1770 transposase, IS30 family 1854072 1855034
 NMB1771 hypothetical protein 1855539 1855108
 NMB1772 hypothetical protein 1857374 1855539
 NMB1773 hypothetical protein 1857783 1857412
 NMB1774 hypothetical protein 1858438 1858064
 NMB1775 hypothetical protein 1860252 1858450
 NMB1776 hypothetical protein 1860353 1860252
 NMB1777 hypothetical protein 1861364 1861122
 NMB1778 hypothetical protein 1861489 1861388
 NMB1779 hemagglutinin/hemolysin-related protein 1867499 1861515
 NMB1780 hemolysin activation protein HecB, putative 1869350 1867611
 NMB1781 hypothetical protein 1869919 1869752
 NMB1782 hypothetical protein 1870236 1869937
 NMB1783 secretion protein, putative FRAMESHIFT 1871826 1870605
 NMB1784 hypothetical protein 1872240 1871890
 NMB1785 hypothetical protein 1872472 1872236
 NMB1786 hypothetical protein 1873623 1872472
 NMB1787 N-acetyl-gamma-glutamyl-phosphate reductase 1874156 1875196
 NMB1788 ATP-dependent DNA helicase RecG 1878304 1876265
 NMB1789 protein-export protein SecE 1878833 1878393
 NMB1790 glutaredoxin 3 1879111 1878857
 NMB1791 cytoplasmic axial filament protein FRAMESHIFT 1879236 1880813
 NMB1792 sensor histidine kinase 1881795 1880854
 NMB1793 response regulator, putative FRAMESHIFT 1882272 1881854
 NMB1794 citrate transporter 1883808 1882498
 NMB1795 hypothetical protein 1884071 1883916
 NMB1796 conserved hypothetical protein 1884950 1884381

Appendix B

-30-

NMB1797 penicillin-binding protein 3 1885109 1886515
 NMB1798 IS1016 family transposase, putative FRAMESHIFT 1887236 1886597
 NMB1799 S-adenosylmethionine synthetase 1888654 1887488
 NMB1800 hypothetical protein 1888703 1888903
 NMB1801 HtzB/MsbB family protein 1889000 1889893
 NMB1802 O-sialoglycoprotein endopeptidase 1891004 1889943
 NMB1803 cytochrome c-type biogenesis protein, putative 1892308 1891124
 NMB1804 cytochrome c-type biogenesis protein, putative 1894316 1892304
 NMB1805 cytochrome c4 1895153 1894533
 NMB1806 conserved hypothetical protein 1895353 1895965
 NMB1807 penicillin-binding protein 1 1898505 1896112
 NMB1808 pilM protein 1898657 1899769
 NMB1809 pilN protein FRAMESHIFT 1899775 1900371
 NMB1810 pilO protein 1900375 1901019
 NMB1811 pilP protein 1901040 1901582
 NMB1812 pilQ protein FRAMESHIFT 1901604 1903908
 NMB1813 shikimate kinase 1904813 1905322
 NMB1814 3-dehydroquinate synthase 1905405 1906481
 NMB1815 conserved hypothetical protein 1907451 1908290
 NMB1816 conserved hypothetical protein 1908323 1908784
 NMB1817 riboflavin-specific deaminase 1908819 1909925
 NMB1818 lipopolysaccharide biosynthesis protein, putative 1910123 1911541
 NMB1819 hypothetical protein 1911541 1911693
 NMB1820 pilin glycosylation protein PglB 1911712 1912950
 NMB1821 pilin glycosylation protein PglC 1913086 1914258
 NMB1822 pilin glycosylation protein PglD 1914309 1916216
 NMB1823 valine--pyruvate aminotransferase 1916275 1917564
 NMB1824 conserved hypothetical protein 1918455 1917622
 NMB1825 hypothetical protein 1919103 1918903
 NMB1826 conserved hypothetical protein 1919452 1919084
 NMB1827 DNA polymerase III, alpha subunit 1919852 1923283
 NMB1828 conserved hypothetical protein 1924652 1923723
 NMB1829 TonB-dependent receptor 1926848 1924725
 NMB1830 phosphoglycolate phosphatase, putative 1926996 1927652
 NMB1831 lytB protein 1928711 1927746
 NMB1832 lipoprotein signal peptidase 1929267 1928743
 NMB1833 isoleucyl-tRNA synthetase 1933332 1930546
 NMB1834 riboflavin kinase/FMN adenylyltransferase 1934394 1933477
 NMB1835 tyrosyl-tRNA synthetase 1936217 1934925
 NMB1836 lipopolysaccharide biosynthesis protein WbpC, putative 1938151 1936283
 NMB1837 hypothetical protein 1938466 1938215
 NMB1838 GTP-binding protein, putative 1939615 1938527
 NMB1839 formate--tetrahydrofolate ligase 1941406 1939733
 NMB1840 conserved hypothetical protein 1941581 1942009
 NMB1841 mannose-1-phosphate guanylyltransferase-related protein 1942741 1942049
 NMB1842 4-hydroxyphenylacetate 3-hydroxylase, small subunit, putative 1943257 1942760
 NMB1843 transcriptional regulator, MarR family 1943812 1943375
 NMB1844 hypothetical protein 1943938 1943819
 NMB1845 thioredoxin 1944662 1944156
 NMB1846 Mrp/NBP35 family protein 1945032 1946108
 NMB1847 pilCl protein FRAMESHIFT 1947287 1950374
 NMB1848 hypothetical protein 1952279 1951938
 NMB1849 carbamoyl-phosphate synthase, small subunit 1952589 1953719
 NMB1850 hypothetical protein 1954091 1954363
 NMB1851 hypothetical protein 1954440 1954697
 NMB1852 conserved hypothetical protein 1954697 1955083
 NMB1853 hypothetical protein 1955422 1955691
 NMB1854 hypothetical protein 1955768 1956406
 NMB1855 carbamoyl-phosphate synthase, large subunit 1956438 1959650
 NMB1856 transcriptional regulator, LysR family 1960777 1959881
 NMB1857 modulator of drug activity B 1961016 1961591

Appendix B

-31-

NMB1858 hypothetical protein 1961977 1961594
 NMB1859 S-adenosylmethionine:tRNA ribosyltransferase-isomerase 1963108
 1962071
 NMB1860 acetyl-CoA carboxylase, biotin carboxyl carrier protein 1963464
 1963916
 NMB1861 acetyl-CoA carboxylase, biotin carboxylase 1964031 1965389
 NMB1862 ribosomal protein L11 methyltransferase 1965653 1966537
 NMB1863 oligoribonuclease 1966558 1967118
 NMB1864 glutamate-1-semialdehyde 2,1-aminomutase 1968808 1967528
 NMB1865 hypothetical protein 1968821 1969036
 NMB1866 conserved hypothetical protein 1969593 1970918
 NMB1867 1-deoxyxylulose-5-phosphate synthase 1972919 1971009
 NMB1868 integrase/recombinase XerC 1973909 1973007
 NMB1869 fructose-bisphosphate aldolase 1974093 1975154
 NMB1870 hypothetical protein 1975177 1976136
 NMB1871 conserved hypothetical protein 1976286 1976960
 NMB1872 ribosomal-protein-alanine acetyltransferase, putative 1976960
 1977397
 NMB1873 DNA polymerase, bacteriophage-type, putative 1977394 1978128
 NMB1874 orotate phosphoribosyltransferase 1978193 1978831
 NMB1875 hypothetical protein 1978908 1979339
 NMB1876 N-acetylglutamate synthase 1979339 1980646
 NMB1877 prolyl oligopeptidase family protein 1980850 1982862
 NMB1878 transcriptional regulator, AraC family 1983567 1982983
 NMB1879 hypothetical protein 1983936 1983628
 NMB1880 ABC transporter, periplasmic solute-binding protein, putative
 1984172 1985134
 NMB1881 conserved hypothetical protein 1985694 1986014
 NMB1882 TonB-dependent receptor 1986131 1988305
 NMB1883 hypothetical protein 1988727 1988440
 NMB1884 conserved hypothetical protein 1989047 1988727
 NMB1885 protein-L-isoaspartate O-methyltransferase 1989783 1989130
 NMB1886 conserved hypothetical protein 1990389 1989889
 NMB1887 triosephosphate isomerase 1990568 1991338
 NMB1888 protein-export membrane protein SecE 1991348 1991695
 NMB1889 hypothetical protein 1992486 1992575
 NMB1890 conserved hypothetical protein 1992709 1993074
 NMB1891 helix-turn-helix family protein 1993074 1993382
 NMB1892 hypothetical protein 1993495 1993704
 NMB1893 conserved hypothetical protein FRAMESHIFT 1994615 1993771
 NMB1894 leucyl-tRNA synthetase, truncation 1994851 1994723
 NMB1895 DNA adenine methylase, truncation 1994987 1994847
 NMB1896 type II restriction enzyme DpnI 1995774 1994974
 NMB1897 leucyl-tRNA synthetase 1998538 1995911
 NMB1898 lipoprotein 1998808 1999320
 NMB1899 hypothetical protein 1999330 1999770
 NMB1900 polyphosphate kinase 1999849 2001996
 NMB1901 IS1016C2 transposase, degenerate 2002232 2002770
 NMB1902 DNA polymerase III, beta subunit 2004113 2003013
 NMB1903 chromosomal replication initiator protein DnaA 2005904 2004351
 NMB1904 ribosomal protein L34 2006196 2006327
 NMB1905 ribonuclease P protein component 2006333 2006695
 NMB1906 conserved hypothetical protein 2006763 2006981
 NMB1907 60 kd inner-membrane protein 2007156 2008790
 NMB1908 conserved hypothetical protein 2009599 2008877
 NMB1909 Maf/YceF/YhdE family protein 2010236 2009649
 NMB1910 conserved hypothetical protein 2010384 2010884
 NMB1911 50S ribosomal protein L32 2010921 2011097
 NMB1912 conserved hypothetical protein 2011275 2011799
 NMB1913 fatty acid/phospholipid synthesis protein 2011891 2012943
 NMB1914 hypothetical protein 2013082 2013330
 NMB1915 hypothetical protein 2013360 2013746
 NMB1916 3-oxoacyl-(acyl-carrier-protein) synthase III 2013931 2014890
 NMB1917 conserved hypothetical protein 2014940 2015344

Appendix B

-32-

NMB1918 malonyl CoA-acyl carrier protein transacylase 2015441 2016364
 NMB1919 ABC transporter, ATP-binding protein 2016505 2018367
 NMB1920 GMP synthase 2018470 2020032
 NMB1921 3-oxoacyl-(acyl-carrier-protein) reductase 2020097 2020840
 NMB1922 IS1106 transposase, degenerate 2021273 2021118
 NMB1923 conserved hypothetical protein 2021377 2021757
 NMB1924 inositol monophosphatase family protein 2022673 2021981
 NMB1925 conserved hypothetical protein 2022876 2023598
 NMB1926 lacto-N-neotetraose biosynthesis glycosyl transferase LgtE 2025680
 2024841
 NMB1927 lacto-N-neotetraose biosynthesis glycosyl transferase-related
 protein 2025817 2025725
 NMB1928 lacto-N-neotetraose biosynthesis glycosyl transferase LgtB 2026656
 2025832
 NMB1929 lacto-N-neotetraose biosynthesis glycosyl transferase LgtA 2027747
 2026701
 NMB1930 glycyl-tRNA synthetase, beta chain 2029827 2027767
 NMB1931 hypothetical protein 2030256 2029912
 NMB1932 glycyl-tRNA synthetase, alpha chain 2031238 2030336
 NMB1933 ATP synthase F1, epsilon subunit 2032065 2031646
 NMB1934 ATP synthase F1, beta subunit 2033473 2032079
 NMB1935 ATP synthase F1, gamma subunit 2034386 2033514
 NMB1936 ATP synthase F1, alpha subunit 2035958 2034414
 NMB1937 ATP synthase F1, delta subunit 2036502 2035972
 NMB1938 ATP synthase F0, B subunit 2036977 2036510
 NMB1939 ATP synthase F0, C subunit 2037284 2037051
 NMB1940 ATP synthase F0, A subunit 2038207 2037344
 NMB1941 hypothetical protein 2038550 2038200
 NMB1942 hypothetical protein 2038997 2038707
 NMB1943 hypothetical protein 2039340 2039170
 NMB1944 ParB family protein 2040252 2039395
 NMB1945 3-octaprenyl-4-hydroxybenzoate carboxy-lyase 2040407 2040976
 NMB1946 outer membrane lipoprotein 2041904 2041044
 NMB1947 ABC transporter, permease protein 2042749 2042066
 NMB1948 ABC transporter, ATP-binding protein 2043488 2042754
 NMB1949 soluble lytic murein transglycosylase, putative 2044018 2045865
 NMB1950 30S ribosomal protein S21 2046157 2046366
 NMB1951 conserved hypothetical protein 2046405 2046944
 NMB1952 stringent starvation protein B 2047538 2047149
 NMB1953 stringent starvation protein A 2048215 2047613
 NMB1954 hypothetical protein 2050146 2048488
 NMB1955 cadmium resistance protein 2050933 2050310
 NMB1956 50S ribosomal protein L31 2051451 2051239
 NMB1957 acetyltransferase-related protein FRAMESHIFT 2051688 2052197
 NMB1958 thioredoxin, putative 2052770 2052273
 NMB1959 conserved hypothetical protein 2053150 2052770
 NMB1960 hypothetical protein 2053632 2053153
 NMB1961 VacJ-related protein 2054464 2053640
 NMB1962 hypothetical protein 2054739 2054464
 NMB1963 conserved hypothetical protein 2055380 2054793
 NMB1964 conserved hypothetical protein 2055911 2055420
 NMB1965 conserved hypothetical protein 2056738 2055965
 NMB1966 ABC transporter, ATP-binding protein 2057586 2056789
 NMB1967 transcriptional regulator, AraC family 2057759 2058673
 NMB1968 aldehyde dehydrogenase A 2058936 2060375
 NMB1969 serotype-1-specific antigen, putative 2061412 2064657
 NMB1970 para-aminobenzoate synthetase component I/4-amino-4-
 deoxychorismate lyase, putative 2065692 2067470
 NMB1971 conserved hypothetical protein 2069049 2067535
 NMB1972 chaperonin, 60 kDa 2071379 2069748
 NMB1973 chaperonin, 10 kDa 2071762 2071475
 NMB1974 IS1016C2 transposase, degenerate 2071990 2072639
 NMB1975 sodium- and chloride-dependent transporter 2072855 2074387
 NMB1976 diaminopimelate decarboxylase 2075759 2074518

Appendix B

-33-

NMB1977 hypothetical protein 2075940 2075773
 NMB1978 cyaY protein 2076011 2076331
 NMB1979 conserved hypothetical protein 2076361 2077374
 NMB1980 conserved hypothetical protein 2077403 2077819
 NMB1981 conserved hypothetical protein 2077844 2078347
 NMB1982 DNA polymerase I 2078496 2081309
 NMB1983 hypothetical protein 2082658 2083326
 NMB1984 IS1106 transposase FRAMESHIFT 2083391 2084499
 NMB1985 adhesion and penetration protein 2089191 2084821
 NMB1986 hypothetical protein 2089756 2089328
 NMB1987 thiophene and furan oxidation protein TdhF 2090041 2091384
 NMB1988 iron-regulated outer membrane protein FrpB 2092611 2094752
 NMB1989 iron(III) ABC transporter, periplasmic binding protein 2095472 2096434
 NMB1990 iron(III) ABC transporter, permease protein 2096601 2097566
 NMB1991 iron(III) ABC transporter, permease protein 2097559 2098530
 NMB1992 hypothetical protein 2098577 2099200
 NMB1993 iron(III) ABC transporter, ATP-binding protein 2099286 2100041
 NMB1994 adhesin/invasin, putative 2100342 2101433
 NMB1995 nitrogen regulatory protein F-II, FRAMESHIFT 2101839 2101423
 NMB1996 phosphoribosylformylglycinamide synthase 2101990 2105949
 NMB1997 hydroxyacylglutathione hydrolase 2106047 2106802
 NMB1998 serine-type peptidase 2107119 2111411
 NMB1999 magnesium transporter 2111646 2113097
 NMB2000 conserved hypothetical protein 2114094 2113189
 NMB2001 conserved hypothetical protein 2114339 2115091
 NMB2002 hypothetical protein 2115113 2115328
 NMB2003 conserved hypothetical protein 2115476 2115820
 NMB2004 conserved hypothetical protein 2115820 2116509
 NMB2005 glutamate N-acetyltransferase/amino-acid acetyltransferase 2116579 2117796
 NMB2006 chloride channel protein-related protein 2117859 2119265
 NMB2007 ATP-dependent RNA helicase HrpA, truncation 2119458 2120846
 NMB2008 ABC transporter, ATP-binding protein-related protein 2120993 2122633
 NMB2009 ATP-dependent RNA helicase HrpA, degenerate 2122680 2122859
 NMB2010 YhbX/YhjW/YijP/YjdB family protein 2123074 2124648
 NMB2011 ATP-dependent RNA helicase HrpA, truncation 2124717 2128133
 NMB2012 transcriptional regulator, HTH 3 family 2129260 2128172
 NMB2013 hypothetical protein 2129920 2129279
 NMB2014 hypothetical protein 2130249 2130004
 NMB2015 hypothetical protein 2130614 2130880
 NMB2016 type IV pilin-related protein 2131493 2131047
 NMB2017 ComEA-related protein 2132027 2131584
 NMB2018 conserved hypothetical protein 2138411 2137752
 NMB2019 lipopolysaccharide core biosynthesis protein KdtB 2138949 2138440
 NMB2020 conserved hypothetical protein 2139756 2139076
 NMB2021 conserved hypothetical protein 2140179 2139916
 NMB2022 conserved hypothetical protein 2140722 2140255
 NMB2023 conserved hypothetical protein 2141162 2140779
 NMB2024 conserved hypothetical protein 2141826 2141224
 NMB2025 conserved hypothetical protein 2142422 2141826
 NMB2026 ABC transporter, permease protein 2144046 2142454
 NMB2027 gluconate permease 2144385 2145767
 NMB2028 thermoresistant gluconokinase 2145790 2146305
 NMB2029 homoserine kinase FRAMESHIFT 2147564 2146650
 NMB2030 3-demethylubiquinone-9 3-methyltransferase 2148329 2147604
 NMB2031 cryptophan transporter 2148481 2149719
 NMB2032 lipopolysaccharide glycosyl transferase, FRAMESHIFT 2149872 2150922
 NMB2033 histidinol-phosphatase, putative 2151173 2151733
 NMB2034 1-acyl-sn-glycerol-3-phosphate acyltransferase, putative 2151765 2152505
 NMB2035 conserved hypothetical protein 2152505 2153194

Appendix B

-34-

NMB2036 tRNA pseudouridine synthase A 2154495 2155390
 NMB2037 hypothetical protein 2155415 2155651
 NMB2038 PemK-related protein 2155642 2155962
 NMB2039 major outer membrane protein PIB 2157487 2158479
 NMB2040 thiamine biosynthesis protein ThiC 2161479 2159581
 NMB2041 thiamin pyrophosphokinase-related protein 2162093 2162965
 NMB2042 spermidine/putrescine ABC transporter, ATP-binding protein 2162977 2163912
 NMB2043 IS1106 transposase, putative POINT MUTATION 2165702 2164734
 NMB2044 phosphoenolpyruvate-protein phosphotransferase 2168278 2166506
 NMB2045 phosphocarrier protein HPr 2168547 2168281
 NMB2046 PTS system, IIAB component 2169074 2168619
 NMB2047 hypoxanthine-guanine phosphoribosyltransferase, putative 2169697 2169137
 NMB2048 DNA ligase 2170590 2169769
 NMB2049 glyoxalase II family protein 2170682 2171311
 NMB2050 conserved hypothetical protein 2173305 2171524
 NMB2051 ubiquinol--cytochrome c reductase, cytochrome c1 2174444 2173647
 NMB2052 ubiquinol--cytochrome c reductase, cytochrome b 2175793 2174447
 NMB2053 ubiquinol--cytochrome c reductase, iron-sulfur subunit 2176393 2175815
 NMB2054 conserved hypothetical protein 2177265 2176519
 NMB2055 transcriptional regulator, LysR family 2177396 2178322
 NMB2056 30S ribosomal protein S9 2178972 2178583
 NMB2057 50S ribosomal protein L13 2179413 2178985
 NMB2058 conserved hypothetical protein 2180081 2179779
 NMB2059 hypothetical protein 2180421 2180095
 NMB2060 glycerol-3-phosphate dehydrogenase (NAD+) 2181465 2180479
 NMB2061 phosphoenolpyruvate carboxylase 2184290 2181591
 NMB2062 thiF protein 2184460 2185227
 NMB2063 slyX protein, putative 2186018 2185797
 NMB2064 conserved hypothetical protein 2187407 2186022
 NMB2065 hemK protein FRAMESHIFT 2188764 2187496
 NMB2066 tldD protein 2190271 2188832
 NMB2067 conserved hypothetical protein 2190661 2191881
 NMB2068 D-amino acid oxidase flavoprotein, putative 2191881 2192978
 NMB2069 thiamin-phosphate pyrophosphorylase 2193003 2193617
 NMB2070 hypothetical protein 2194042 2194233
 NMB2071 thiG protein 2194450 2195235
 NMB2072 hypothetical protein 2195352 2195492
 NMB2073 hypothetical protein 2195580 2195780
 NMB2074 hypothetical protein 2196867 2196004
 NMB2075 BirA protein/Bvg accessory factor 2198657 2196882
 NMB2076 aut protein 2199160 2198657
 NMB2077 methylenetetrahydrofolate dehydrogenase/methylenetetrahydrofolate cyclohydrolase FRAMESHIFT 2199800 2200650
 NMB2078 conserved hypothetical protein 2201296 2200718
 NMB2079 aspartate-semialdehyde dehydrogenase 2201472 2202584
 NMB2080 hypothetical protein 2203345 2202818
 NMB2081 hypothetical protein 2203700 2203359
 NMB2082 exodeoxyribonuclease 2204466 2203690
 NMB2083 cysteinyl-tRNA synthetase 2205970 2204552
 NMB2084 hypothetical protein 2206648 2205985
 NMB2085 hypothetical protein 2207707 2206661
 NMB2086 GTP-binding protein 2208944 2207793
 NMB2087 hypothetical protein 2209792 2209433
 NMB2088 conserved hypothetical protein 2210766 2209894
 NMB2089 conserved hypothetical protein 2210812 2211156
 NMB2090 phosphoheptose isomerase 2211164 2211754
 NMB2091 hemolysin, putative 2211821 2212426
 NMB2092 hypothetical protein 2212437 2213066
 NMB2093 methionine aminopeptidase 2213109 2213885
 NMB2094 hypothetical protein 2214043 2214339
 NMB2095 adhesin complex protein, putative 2214580 2214951

Appendix B

-35-

NMB2096 malate:quinone oxidoreductase 2216608 2215145
 NMB2097 hypothetical protein 2216749 2216663
 NMB2098 conserved hypothetical protein 2217735 2217148
 NMB2099 conserved hypothetical protein 2218377 2217799
 NMB2100 hypothetical protein 2218455 2218685
 NMB2101 30S ribosomal protein S2 2218861 2219586
 NMB2102 elongation factor TS (EF-TS) 2219718 2220569
 NMB2103 uridylate kinase 2220789 2221505
 NMB2104 mafA protein FRAMESHIFT 2221692 2222652
 NMB2105 mafB protein 2222695 2224143
 NMB2106 hypothetical protein 2224143 2224496
 NMB2107 MafB-related protein 2224527 2225288
 NMB2108 hypothetical protein 2225301 2225504
 NMB2109 hypothetical protein 2225639 2225887
 NMB2110 hypothetical protein 2225887 2226255
 NMB2111 MafB-related protein 2226268 2227110
 NMB2112 hypothetical protein 2227306 2227572
 NMB2113 hypothetical protein 2227598 2227897
 NMB2114 MafB-related protein 2227948 2228583
 NMB2115 hypothetical protein 2228589 2228930
 NMB2116 hypothetical protein 2228971 2229312
 NMB2117 MafB-related protein, degenerate 2229645 2230340
 NMB2118 hypothetical protein 2230340 2230654
 NMB2119 MafB-related protein 2230709 2231464
 NMB2120 hypothetical protein 2231471 2231869
 NMB2121 hypothetical protein 2232031 2232372
 NMB2122 MafB-related protein 2232409 2232510
 NMB2123 hypothetical protein 2232518 2232871
 NMB2124 hypothetical protein 2232922 2233047
 NMB2125 hypothetical protein 2233047 2233418
 NMB2126 IS1016 family transposase, putative FRAMESHIFT 2234296 2233462
 NMB2127 protease, putative 2235364 2234381
 NMB2128 ClnA-related protein 2236204 2235407
 NMB2129 argininosuccinate synthase 2236517 2237857
 NMB2130 hypothetical protein 2237908 2238147
 NMB2131 hypothetical protein 2238143 2238355
 NMB2132 transferrin-binding protein-related protein 2239900 2238437
 NMB2133 sodium/dicarboxylate symporter family protein 2241384 2240158
 NMB2134 conserved hypothetical protein 2241857 2243761
 NMB2135 conserved hypothetical protein 2243771 2247985
 NMB2136 peptide transporter 2249471 2250925
 NMB2137 hypothetical protein 2251451 2251660
 NMB2138 peptide chain release factor 2 2252924 2251824
 NMB2139 conserved hypothetical protein 2253920 2253030
 NMB2140 conserved hypothetical protein 2254265 2254711
 NMB2141 hypothetical protein 2254787 2255092
 NMB2142 conserved hypothetical protein 2255187 2256050
 NMB2143 conserved hypothetical protein 2256043 2256786
 NMB2144 sigma factor, putative 2256811 2257395
 NMB2145 hypothetical protein 2257404 2257580
 NMB2146 hypothetical protein 2257703 2257810
 NMB2147 hypothetical protein 2257842 2258261
 NMB2148 transposase, IS30 family 2258738 2259700
 NMB2149 hypothetical protein 2260032 2259795
 NMB2150 conserved hypothetical protein 2261006 2260440
 NMB2151 phosphoribosylamine--glycine ligase 2262344 2261076
 NMB2152 hypothetical protein 2262502 2262816
 NMB2153 conserved hypothetical protein 2263482 2262874
 NMB2154 electron transfer flavoprotein, alpha subunit 2264480 2263548
 NMB2155 electron transfer flavoprotein, beta subunit 2265240 2264494
 NMB2156 heptosyltransferase I 2266435 2265470
 NMB2157 pyrazinamidase/nicotinamidase PncA, putative 2267107 2266475
 NMB2158 conserved hypothetical protein 2267221 2267898
 NMB2159 glyceraldehyde 3-phosphate dehydrogenase 2269163 2268162

Appendix B

-36-

NMB2160 DNA mismatch repair protein MutS 2269607 2272198
 NMB0505 hypothetical protein 533467 533186
 NMB1123 hypothetical protein 1135584 1135390
 NMB1124 hypothetical protein 1136271 1135627
 NMB1125 hypothetical protein 1136639 1136271
 NMB1126 hypothetical protein 1137317 1136649
 NMB1127 oxidoreductase, short chain dehydrogenase/reductase family 1138201
 1137485
 NMB1129 hypothetical protein 1139833 1139630
 NMB1130 phytoene synthase, putative 1140867 1139998
 NMB1133 conserved hypothetical protein / ankyrin-related protein 1144428
 1143670
 NMB1134 ferredoxin, 2Fe-2S type 1144824 1144486
 NMB1135 hypothetical protein 1145242 1145102
 NMB1137 conserved hypothetical protein 1146211 1146017
 NMB1138 conserved hypothetical protein 1146683 1146285
 NMB1141 RNA methyltransferase, TrmH family 1150088 1149480
 NMB1142 hypothetical protein 1150375 1150142
 NMB1143 hypothetical protein 1150909 1150547
 NMB1144 hypothetical protein 1151226 1150924, lipoprotein
 NMB1147 hypothetical protein 1154639 1154007, homology to plasmid proteins
 Y4SH_RISHN and PXO2_BACAN
 NMB1149 hypothetical protein 1155016 1154876
 NMB1151 sulfite reductase hemoprotein, beta-component 1159086 1157320
 NMB1152 sulfite reductase (NADPH) flavoprotein, alpha component 1160927
 1159116
 NMB1154 sulfate adenylyltransferase, subunit 2 1163172 1162252
 NMB1156 siroheme synthase 1165412 1163964
 NMB1157 hypothetical protein 1165696 1165541
 NMB1159 conserved hypothetical protein 1167316 1166429, inner membrane
 NMB1160 conserved hypothetical protein 1167316 1166429
 NMB1166 conserved hypothetical protein 1171633 1170323
 NMB1169 chaperone protein HscA 1174933 1173074
 NMB1170 hypothetical protein 1175666 1175013
 NMB1174 hypothetical protein 1178053 1177373
 NMB1177 acetyl-CoA carboxylase, carboxyl transferase alpha subunit 1179887
 1178931
 NMB1178 mesJ protein FRAMESHIFT 1181265 1179984
 NMB1183 UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-
 diaminopimelate ligase 1184700 1183327
 NMB1184 biotin synthetase 1185959 1184910
 NMB1186 hypothetical protein 1186881 1186729
 NMB1188 dihydroxy-acid dehydratase 1189180 1187324
 NMB1191 sulfate adenylyltransferase, subunit 1 1194246 1192963
 NMB1193 phosphoadenosine phosphosulfate reductase 1195986 1195249
 NMB1196 nickel-dependent hydrogenase, b-type cytochrome subunit 1198401
 1197748

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/US 00/05928

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C12Q1/68 C12N15/11 C07K14/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 17805 A (RAYMOND NIGEL ;QUINN FREDERICK D (US); US HEALTH (US); RIBOT EFRAI) 30 April 1998 (1998-04-30) the whole document	1-4, 7-14, 18-24
X	EP 0 467 714 A (MERCK & CO INC) 22 January 1992 (1992-01-22) claims; example 3 --- -/-	1-4, 7-14, 18-24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 October 2000

Date of mailing of the international search report

19.10.00

 Name and mailing address of the ISA
 European Patent Office, P.B. 5818 Patentaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Luzzatto, E

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/05928

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>FLEISCHMANN R D ET AL: "WHOLE-GENOME RANDOM SEQUENCING AND ASSEMBLY OF HAEMOPHILUS INFLUENZAE RD" SCIENCE,US,AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, vol. 269, no. 5223, 28 July 1995 (1995-07-28), pages 496-498,507-51, XP000517090 ISSN: 0036-8075 the whole document</p> <p>---</p>	1-4, 7-14, 16-24
T	<p>TETTELIN H ET AL: "Complete genome sequence of Neisseria meningitidis serogroup B strain MC58 'see comments!'" SCIENCE, (2000 MAR 10) 287 (5459) 1809-15., XP000914963 page 963</p> <p>---</p>	
T	<p>PIZZA M ET AL: "Identification of vaccine candidates against serogroup B meningococcus by whole- genome sequencing 'see comments!'" SCIENCE, (2000 MAR 10) 287 (5459) 1816-20., XP000914964 the whole document</p> <p>---</p>	
T	<p>PARKHILL J ET AL: "Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491 'see comments!'" NATURE, (2000 MAR 30) 404 (6777) 502-6., XP000918875 the whole document</p> <p>-----</p>	

INTERNATIONAL SEARCH REPORT

national application No.
PCT/US 00/05928**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16,17 (partly)
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(v) PCT - Presentation of information (insofar as related to computer databases)
2. ☒ Claims Nos.: 5,6,15 (completely), 1-4, 7-14, 16-24 (partly)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 5,6,15 (completely), 1-4, 7-14, 16-24 (partly)

1) Claims 5 and 6 (and thus 15 which refers to claim 6 and whose reference to claims 7 and 8 is wrong) lack any essential technical feature which could allow a meaningful search to be carried out. They have thus not been searched. For the same reason claims 18-24 have not been searched insofar as referring to any of claims 5, 6 and 15.

2) Claims 1-4, 7-14, 16-24 have only been searched insofar as related to the full sequence SEQ ID 1 in view of the absence of any indication in the claims as to searcheable SEQ IDs corresponding to the "NMB open reading frames". SEQ ID 1 as such is not searchable by means of similarity algorithms since it is too long: the search with respect thereto has thus been carried out based on keywords.

3) A further reason for not searching claims 1-4 insofar as related to "NMB open reading frames" is that claim 1 is unclear (Art. 6 PCT). It relates to a method for searching open reading frames "within one or more...NMB open reading frames", which is however technically meaningless.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/05928

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9817805 A	30-04-1998	AU 5426098 A	15-05-1998
EP 0467714 A	22-01-1992	AU 8114091 A	23-01-1992
		CA 2047043 A	20-01-1992
		FI 913473 A	20-01-1992
		JP 6056690 A	01-03-1994
		MX 9100272 A	28-02-1992
		NO 912822 A	20-01-1992
		PT 98381 A	29-05-1992
		ZA 9105629 A	25-03-1992
		AU 8113691 A	23-01-1992
		CA 2050635 A	20-01-1992
		FI 913475 A	20-01-1992
		JP 6016569 A	25-01-1994
		JP 6055679 B	27-07-1994
		NO 912823 A	20-01-1992
		NZ 238974 A	23-12-1992
		PT 98382 A	29-05-1992
		ZA 9105627 A	25-03-1992
		AU 8113791 A	23-01-1992
		CA 2047030 A	20-01-1992
		FI 913474 A	20-01-1992
		JP 6041197 A	15-02-1994
		MX 9100274 A	28-02-1992
		NO 912824 A	20-01-1992
		PT 98383 A	30-06-1992
		ZA 9105628 A	25-03-1992